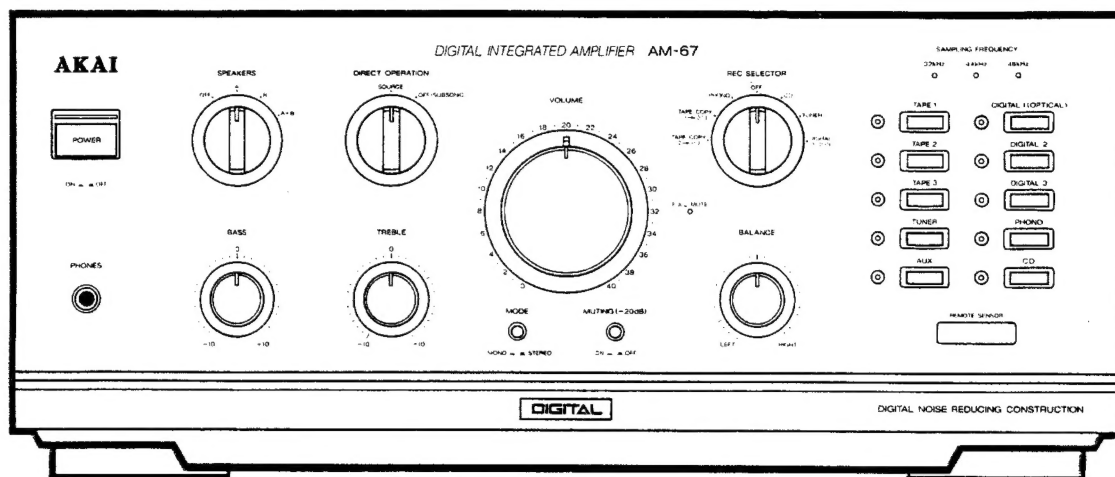


AKAI SERVICE MANUAL



MODEL AM-67

DIGITAL INTEGRATED AMPLIFIER

MODEL AM-57/67

SPECIFICATIONS

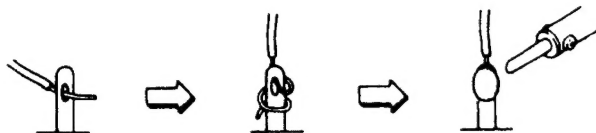
| | | | |
|-------------------------|--|------------------------------------|---|
| Power output | | Required speaker impedance | |
| AM-67 | 200 W+200 W (DIN, 4 ohms at 1 kHz, 1%) | A or B | 4 to 16 ohms |
| | 110 W + 110 W (FTC, 8 ohms at 20 Hz to 20 kHz, 0.05 %) | A and B | 8 to 16 ohms |
| AM-57 | 170 W + 170 W (DIN, 4 ohms at 1 kHz, 1%) | [DIGITAL section AM-67only] | |
| | 100 W+100 W (FTC, 8 ohms at 20 Hz to 20 kHz, 0.05 %) | Sampling frequency | 32 kHz / 44.1 kHz / 48 kHz |
| Power band width | 5 Hz to 60 kHz (0.1 %) | Digital filter | Advanced interpolative dual D/A convertor |
| T. H. D | 0.005 % (1 kHz, 8 ohms) | Digital input level | |
| Frequency response | 5 Hz to 100 kHz (+0 dB, -3 dB) | Coaxial | 0.5 Vp-p / 75 ohms |
| Tone control | | Optical | -14 dBm to -23dBm |
| BASS | ±8 dB (100 Hz) | Frequency response | 5 Hz to 20 kHz (±0.3 dB) |
| TREBLE | ±8 dB (10 kHz) | Dynamic range | 96 dB |
| Input level / Impedance | | T.H.D | 0.002 % |
| PHONO (MM) | 2.0 mV / 47 kohms | [GENERAL] | |
| TUNER, etc. | 150 mV / 47 kohms | Power requirements | 220-230 V, 50 Hz for Europe except UK |
| Output level | | | 240 V, 50 Hz for UK |
| TAPE REC OUT | 150 mV | Dimensions | 425 (W) X 177 (H) X 401 (D) mm |
| Damping factor | 45 (1 kHz, 8 ohms) | Weight | |
| S/N ratio | | AM-67 | 14.8 kg |
| PHONO (MM) | 86 dB (IHF-A) | AM-57 | 13.3 kg |
| TUNER, etc. | 102 dB (IHF-A) | Standard accessory | |
| Audio mute | -20dB | Remote control unit | x 1 |
| Subsonic filter | 10 Hz (-12dB/oct) | (RC-A67) | |
| Channel separation | 75 dB (1 kHz) / 55 dB (10 kHz) | Batteries | x 2 |
| | | Operator's manual | x 1 |

* For improvement purposes, specifications and design are subject to change without notice.

★SAEETY INSTRUCTIONS

PRECAUTIONS DURING SERVICING

1. Parts identified by the \triangle (*) symbol are critical for safety. Replace only with parts number specified
2. In addition to safety, other parts and assemblies are specified for conformance with such regulations as those applying to spurious radiation.
These must also be replaced only with specified replacements.
Examples: RF converters, tuner units, antenna selector switches, RF cables, noise blocking capacitors, noise blocking filters, etc.
3. Use specified internal wiring. Note especially:
 - 1) Wires covered with PVC tubing
 - 2) Double insulated wires
 - 3) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers (Insulating Barriers)
 - 4) Insulation sheets for transistors
 - 5) Plastic screws for fixing micro switch (especially in turntable)
5. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.), wrap ends of wires securely about the terminals before soldering



6. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.).

7. Check that replaced wires do not contact sharp edged or pointed parts.
8. Also check areas surrounding repaired locations.
9. Use care that foreign objects (screws, solder, droplets, etc.) do not remain inside the set.

SAFETY CHECK AFTER SERVICING

After servicing, make measurements of leakage-current or resistance in order to determine that exposed parts are acceptably insulated from the supply circuit.

The leakage-current measurement should be done between accessible metal parts (such as chassis, ground terminal, microphone jacks, signal-input/output connectors, etc.) and the earthground through a resistor of 1500 ohms paralleled with a 0.15 μ F capacitor, under the unit's normal working conditions. The leakage-current should be less than 0.5 mA rms AC.

The resistance measurement should be done between accessible exposed metal parts and power cord plug prongs with the power switch (if included) "ON". The resistance should be more than 2.2 Mohms.

MAKE YOUR CONTRIBUTION TO PROTECT THE ENVIRONMENT

Used batteries with the ISO symbol for recycling as well as small accumulators (rechargeable batteries), mini-batteries (cells) and starter batteries should not be thrown into the garbage can.

Please leave them at an appropriate depot. All other household batteries can be thrown out with the household waste



★INFORMATION

SYMBOLS FOR PRIMARY DESTINATION

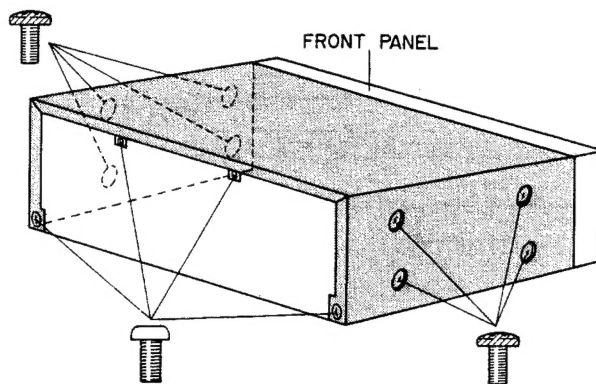
Alphabet indicates the destination of the units as listed below.

| Symbols | Principal Destinations |
|---------|------------------------|
| A | USA |
| B | UK |
| C | Canada |
| E | Europe (except UK) |
| J | Japan |
| S | Australia |
| V | Germany |
| U | Universal Area |
| Y* | Custom version |

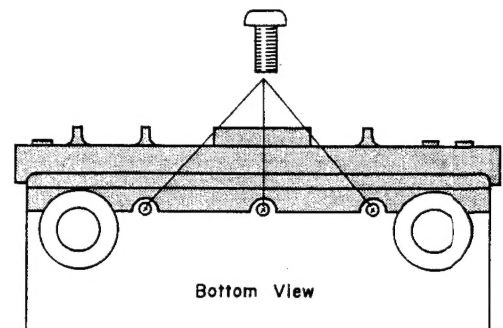
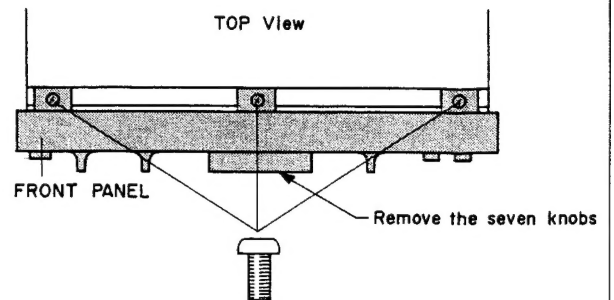
I. DISASSEMBLY

In case of trouble, etc. necessitating dismantling, please dismantle in the order shown in the illustrations. Reassemble in reverse order.

1. Removal of UPPER COVER



2. Removal of FRONT PANEL



II. PRINCIPAL PARTS LOCATION

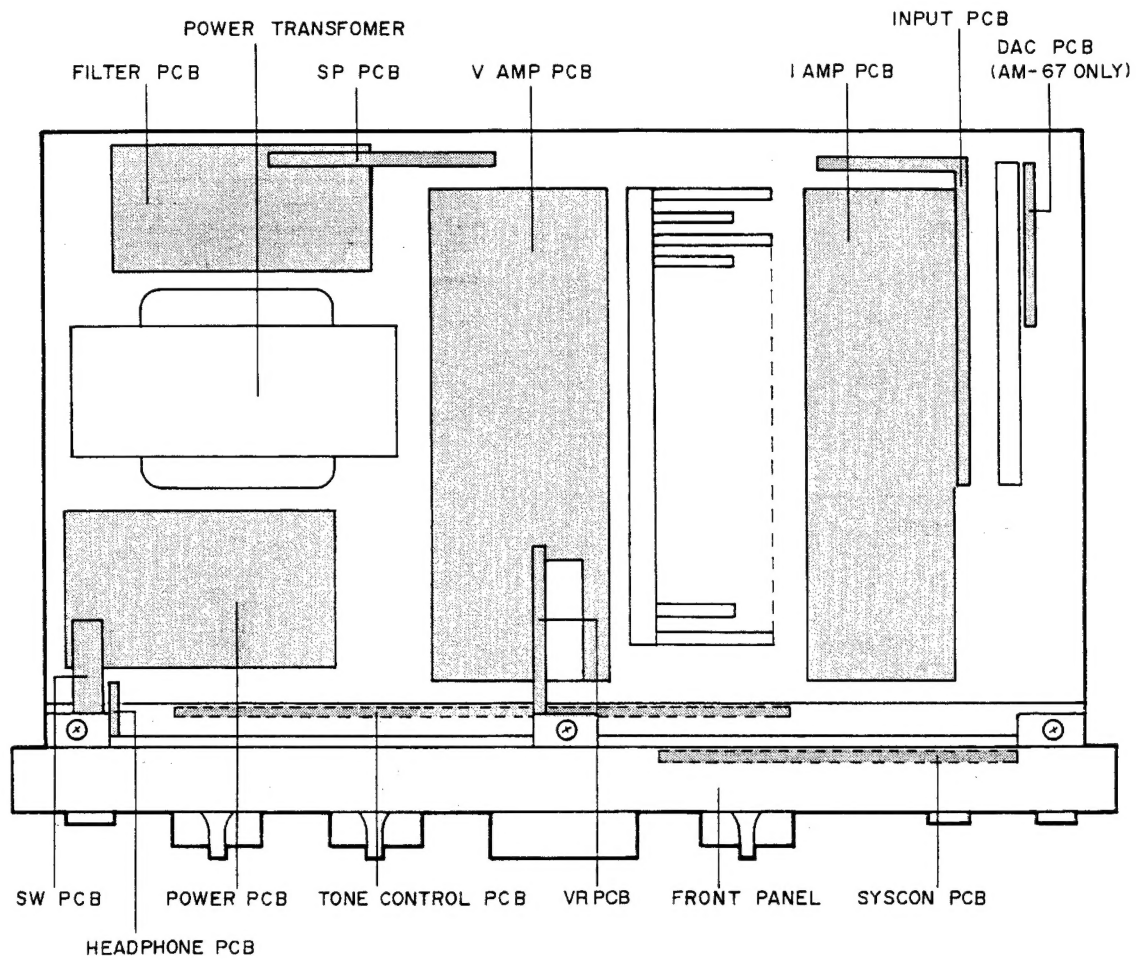


Fig. 2-1 Top view

III. PARTS LIST

ATTENTION

1. When placing an order for parts, be sure to list Part No., Model No. and the description of each part. Otherwise, the non-delivery of the part or the delivery of a wrong part may result.
2. Please make sure that Part No. is correct when ordering. If not, a part different from the one you ordered may be delivered.
3. Since the parts shown in Parts List of Preliminary Service Manual may have been the subject of changes, please use this Parts List for all future reference.

HOW TO USE THIS PARTS LIST

1. This Parts List lists those parts which are considered necessary for repairs. Other common parts, such as resistors and capacitors, are listed in the "Common List for Service Parts" from which these parts should be selected and stocked.
2. The Recommended Spare Parts List shows those parts in the Parts List which are considered particularly important for service.
3. Parts not shown in the Parts List and "Common List for Service Parts" will not in principle be supplied.
4. How to read the Parts List.

a) Mechanism Block

2. HEAD BASE BLOCK

| Ref. No. | Part No. | Description |
|----------|---------------|--------------------|
| 1 | BH-T2023A320A | HEAD BASE BLOCK |
| 2 | HP-H2206A010A | HEAD R/P PR4-8FU C |
| 3 | ZS-477876 | PAN20×03STL CMT |
| 4 | ZS-536488 | BID20×08STL CMT |
| 5 | ZG-402895 | SP CS ANGLE ADJUST |

SP (Service Parts) Classification

This number corresponds with the individual parts index number in that figure.

b) PC Board

6. MAIN PC BOARD

| Ref. No. | Part No. | Description |
|----------|-----------|-----------------------------|
| IC1 | EI-324536 | IC HD14049BP |
| IC2 | EI-336801 | IC MB8841-564M |
| C1A | EC-338399 | C MMY V 223M 250AC [U,EB,S] |
| C1B | EC-350949 | C MMY V 223M 250DC [J] |
| C1C | EC-338397 | C MMY V 223M 125AC [C,A] |
| X1 | EI-318384 | OSC X'TAL NC-18C |

Symbols for primary destination

[A]: AAL (U.S.A) [S]: SAA (Australia)
[B]: BEAB (England) [U]: U/T (Universal Area)
[C]: CSA (Canada)
[E]: CEE (Europe) [V]: VDE (Germany)
[J]: JPN (Japan) [Y]: Custom Version

SP (Service Parts) Classification

These reference symbols correspond with component symbols in the Schematic Diagrams.

The available PC Board Blocks are listed separately.

5. When Part No. is known, Parts Index at end of Parts List can be used to locate where that part is shown in Parts List by its Reference No. listed at right of Part No.

WARNING

△ (*) INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURE'S RECOMMENDED PARTS.

AVERTISSEMENT

△ (*) IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

1. RECOMMENDED SPARE PARTS

We suggest you to stock the following Recommended Spare Part items listed below since they can cover most of the routine service.

| Ref.No. | Part No. | Description |
|---------|-------------|---|
| 1 | AX-403443J1 | REMOCON RC-A57 [AM-57] |
| 2 | AX-403444J1 | REMOCON RC-A67 [AM-67] |
| 3 | *BT-403428J | TRANS POW A2071 B [B][AM-57] |
| 4 | *BT-403427J | TRANS POW A2071 EV [E,V][AM-57] |
| 5 | *BT-403430J | TRANS POW A2072 B [B][AM-67] |
| 6 | *BT-403429J | TRANS POW A2072 EV [E,V][AM-67] |
| 7 | *EC-368118 | C DBL LAYER EECS5R5H 224 5.5DC |
| 8 | EC-381263J | C EC V SNP 103M 63.0DC |
| 9 | ED-403436J | D LED SLR-33VC70F80 RED T05 |
| 10 | ED-403987J | D LED SLR33MC3F GREEN [POWER LED] |
| 11 | ED-400680J | D LED SLR33MC70F80 GREEN T05 |
| 12 | *ED-379981J | D SILICON EG01LF-F4 F10 400/0.7A |
| 13 | ED-348990 | D SILICON H DS446 |
| 14 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| 15 | ED-624903 | D SILICON H 1S2473 |
| 16 | *ED-384278J | D SILICON RBV602 200/6.0A |
| 17 | *ED-370990 | D SILICON 1SR35-100AHS F10 |
| 18 | ED-388120J | D ZENER H HZS3B1 |
| 19 | *ED-346557 | D ZENER H HZ12A3L |
| 20 | *ED-330218 | D ZENER H HZ15-2L |
| 21 | *ED-346567 | D ZENER H HZ16-1L |
| 22 | ED-310607 | D ZENER H HZ18 2 |
| 23 | *ED-324013 | D ZENER H HZ20 2 |
| 24 | ED-330219 | D ZENER H HZ20-2L |
| 25 | *ED-377933 | D ZENER H HZ27-3LFA F10 |
| 26 | *ED-346583 | D ZENER H HZ30-3L |
| 27 | *ED-309959 | D ZENER H HZ5 C3 [AM-67] |
| 28 | ED-343410 | D ZENER H HZ6A1L |
| 29 | ED-346525 | D ZENER H HZ6A3L |
| 30 | *ED-346529 | D ZENER H HZ6C2L |
| 31 | *EF-359007 | FUSE BET T 250V 1.25A |
| 32 | *EF-355399 | FUSE BET T 250V 5.00A [AM-57] |
| 33 | *EF-355374 | FUSE BET T 250V 500MA |
| 34 | *EF-359517 | FUSE BET T 250V 6.30A [AM-67] |
| 35 | EI-403431J | IC LC66404 4702 AM67AP1 |
| 36 | EI-403530J | IC LC7822N |
| 37 | EI-393323J | IC M5218AL-771 |
| 38 | EI-393326J | IC M5218AP-721 |
| 39 | EI-348785 | IC M5220L |
| 40 | EI-362587 | IC M5238L |
| 41 | EI-403498J | IC PCM67P |
| 42 | EI-390063J | IC PD0037 |
| 43 | EI-403437J | IC SM-5840AP |
| 44 | EI-360040J1 | IC TC74HCU04AP |
| 45 | EI-354080 | IC UPC1237H |
| 46 | EI-396490J | OSC CE CST4.00MGW-TF01 T05 |
| 47 | EJ-394459J | SOCKET OPTICAL GP1F32R |
| 48 | EJ-394490J | SOCKET OPTICAL GP1F32T |
| 49 | *EO-332116 | COIL FIX 2 103AK-006A 2R2K |
| 50 | EQ-403529J | RELAY POW 12S MBU524UL3 2NO12V |
| 51 | EQ-400957J | RELAY SIG RY12W-OH-K 2TR 12V |
| 52 | *ER-341493 | R FUSE H S10 ERD2FC 1/4W 1001G |
| 53 | *ER-326169 | R FUSE H S10 ERD2FC 1/4W 22R0G [AM-67] |
| 54 | *ER-318248 | R FUSE H S10 ERD2FC 1/4W 47R0G |
| 55 | *ER-344161 | R FUSE H S10 ERD2FC 1/4W 82R0G |
| 56 | *ES-355407 | SW PUSH ESB-99713V TV-B [AM-67] |
| 57 | *ES-361970 | SW PUSH SDDL1 01-1 [AM-57] |
| 58 | ES-403533J | SW PUSH SPEC21 2THROW S |
| 59 | ES-403532J | SW ROTARY SRBV14 01-04N |
| 60 | ES-403531J | SW ROTARY SRBV17 01-07N |
| 61 | ES-401263J | SW ROTARY SRBV22 02-02N |

| Ref.No. | Part No. | Description |
|---------|--------------|------------------------------------|
| 62 | ES-396610J | SW TACT SOR-122HS T05 |
| 63 | ET-403432J | DETECTOR SPS-420-1 |
| 64 | ET-356336 | TR DTA114ES |
| 65 | ET-353897 | TR DTC114ES |
| 66 | ET-354414 | TR DTC144ES [AM-67] |
| 67 | ET-321016 | TR FET 2SK117 GR,BL |
| 68 | *ET-338244 | TR 2SA1207 R,S |
| 69 | ET-368048 | TR 2SA1208 S |
| 70 | *ET-345626 | TR 2SA1248 S,T |
| 71 | *ET-385577J | TR 2SA1306 Y |
| 72 | ET-353899 | TR 2SA1317 S,T,U |
| 73 | *ET-352726 | TR 2SA1392 T,U |
| 74 | *ET-368757 | TR 2SA1490 P,Y [AM-57] |
| 75 | *ET-390074J1 | TR 2SA1491 P,Y LF118 [AM-67] |
| 76 | *ET-403527J | TR 2SA1507 S,T [AM-67] |
| 77 | ET-349705 | TR 2SC2320 E,F,G |
| 78 | *ET-348830 | TR 2SC2909 S,T |
| 79 | ET-368047 | TR 2SC2910 S |
| 80 | *ET-345625 | TR 2SC3116 S,T |
| 81 | *ET-385557J | TR 2SC3298 Y |
| 82 | ET-397160J | TR 2SC3330 R,S,T,U,V |
| 83 | ET-378524J | TR 2SC3383 S,T,U |
| 84 | *ET-368759 | TR 2SC3854 P,Y [AM-57] |
| 85 | *ET-390070J1 | TR 2SC3855 P,Y LF118 [AM-67] |
| 86 | *ET-403526J | TR 2SC3902 S,T |
| 87 | *ET-371028 | TR 2SD1266 P,Q |
| 88 | EV-401270J | VR ROTARY RK16312 B103X2 |
| 89 | EV-403534J | VR ROTARY RK1631220 SPL W104 |
| 90 | EV-403537J | VR SPL RK16312MC D104X2 [AM-57] |
| 91 | EV-403535J | VR SPL RK18112MC D104X2 [AM-67] |

2. P.C BOARD BLOCK

| Ref.No. | Part No. | Description |
|---------|---------------|------------------------------------|
| 1A | BA-A2071A020C | PC (#) MAIN AMP BLK AM-57 (E) |
| 1B | BA-A2071A020D | PC (#) MAIN AMP BLK AM-57 (V) |
| 1C | BA-A2071A020A | PC (#) MAIN AMP BLK AM-67 (E) |
| 1D | BA-A2071A020B | PC (#) MAIN AMP BLK AM-67 (V) |
| 2A | BA-A2071A030C | PC (#) PRE AMP BLK AM-57 (E) |
| 2B | BA-A2071A030D | PC (#) PRE AMP BLK AM-57 (V) |
| 2C | BA-A2071A030A | PC (#) PRE AMP BLK AM-67 (E) |
| 2D | BA-A2071A030B | PC (#) PRE AMP BLK AM-67 (V) |
| 3A | BA-A2071A040A | PC SYSCON BLK AM-57 |
| 3B | BA-A2071A040B | PC SYSCON BLK AM-67 |
| 4A | BA-A2072A050A | PC DAC BLK AM-67 (E) [E][AM-67] |
| 4B | BA-A2072A050B | PC DAC BLK AM-67 (V) [V][AM-67] |

PC (#) MAIN AMP BLK CONSISTS OF FOLLOWING P.C BOARD.

- MAIN AMP (A) P.C BOARD (V. AMP)
- MAIN AMP (B) P.C BOARD (I AMP)
- MAIN AMP (C) P.C BOARD (POWER)
- MAIN AMP (D) P.C BOARD (SP)
- MAIN AMP (E) P.C BOARD (FILTER)
- MAIN AMP (F) P.C BOARD (POWER SW)
- MAIN AMP (G) P.C BOARD (HEAD PHONE)
- MAIN AMP (H) P.C BOARD (THERMO L)
- MAIN AMP (J) P.C BOARD (THERMO R)

PC (#) PRE AMP BLK CONSISTS OF FOLLOWING P.C BOARD.

- PRE AMP (A) P.C BOARD (INPUT)
- PRE AMP (B) P.C BOARD (TONE CONTROL)
- PRE AMP (C) P.C BOARD (MAIN VR)
- PRE AMP (D) P.C BOARD (LED)

3. MAIN AMP (A) P.C BOARD (V AMP)

| Ref.No. | Part No. | Description |
|---------|-------------|-----------------------------|
| D1 | ED-624903 | D SILICON H 1S2473 |
| D2 | ED-624903 | D SILICON H 1S2473 |
| D3 | *ED-346567 | D ZENER H HZ16-1L |
| D4 | *ED-346567 | D ZENER H HZ16-1L |
| D5 | *ED-346567 | D ZENER H HZ16-1L |
| D6 | *ED-346567 | D ZENER H HZ16-1L |
| D7 | *ED-346583 | D ZENER H HZ30-3L |
| D8 | *ED-346583 | D ZENER H HZ30-3L |
| D9 | *ED-346583 | D ZENER H HZ30-3L |
| D10 | *ED-346583 | D ZENER H HZ30-3L |
| IC1 | EI-393326J | IC M5218AP-721 |
| R10 | *ER-375108 | R CB H S10FLR RDS 1/4W 272J |
| R13 | *ER-375108 | R CB H S10FLR RDS 1/4W 272J |
| R16 | *ER-378517J | R OMF H S15 FS 2W 681J |
| R21 | *ER-378517J | R OMF H S15 FS 2W 681J |
| R22 | *ER-324480 | R CB H S10 FS RDS 1/4W 470J |
| R24 | *ER-324480 | R CB H S10 FS RDS 1/4W 470J |
| R29 | *ER-382604J | R CB H S10FLR RDS 1/4W 390J |
| R32 | *ER-382604J | R CB H S10FLR RDS 1/4W 390J |
| TR1 | ET-321016 | TR FET 2SK117 GR,BL |
| TR2 | ET-368047 | TR 2SC2910 S |
| TR3 | ET-368048 | TR 2SA1208 S |
| TR4 | *ET-368048 | TR 2SA1208 S |
| TR5 | *ET-345625 | TR 2SC3116 S,T |
| TR6 | *ET-368047 | TR 2SC2910 S |
| TR7 | *ET-345626 | TR 2SA1248 S,T |
| TR8 | *ET-368048 | TR 2SA1208 S |
| TR9 | *ET-345626 | TR 2SA1248 S,T |
| TR10 | *ET-368047 | TR 2SC2910 S |
| TR11 | *ET-345625 | TR 2SC3116 S,T |
| TR12 | *ET-368048 | TR 2SA1208 S |
| TR13 | *ET-345626 | TR 2SA1248 S,T |
| TR14 | *ET-368047 | TR 2SC2910 S |
| TR15 | *ET-345625 | TR 2SC3116 S,T |

4. MAIN AMP (B) P.C BOARD (I AMP)

| Ref.No. | Part No. | Description |
|---------|--------------|--------------------------------------|
| C101 | EC-381263J | C EC V SNP 103M 63.0DC |
| C102 | EC-381263J | C EC V SNP 103M 63.0DC |
| D101 | *ED-384278J | D SILICON RBV602 200/6.0A |
| D102 | *ED-384278J | D SILICON RBV602 200/6.0A [AM-67] |
| D105 | ED-348990 | D SILICON H DS446 |
| D106 | ED-348990 | D SILICON H DS446 |
| D107 | ED-348990 | D SILICON H DS446 |
| D108 | ED-348990 | D SILICON H DS446 |
| D109 | ED-348990 | D SILICON H DS446 |
| D110 | ED-310607 | D ZENER H HZ18 2 |
| D111 | ED-310607 | D ZENER H HZ18 2 |
| D112 | ED-310607 | D ZENER H HZ18 2 |
| D114 | ED-346567 | D ZENER H HZ16-1L |
| D115 | ED-624903 | D SILICON H 1S2473 |
| D116 | ED-624903 | D SILICON H 1S2473 |
| D117 | ED-624903 | D SILICON H 1S2473 |
| FR101 | *ER-318248 | R FUSE H S10 ERD2FC 1/4W 47R0G |
| FR102 | *ER-318248 | R FUSE H S10 ERD2FC 1/4W 47R0G |
| FR107 | *ER-341493 | R FUSE H S10 ERD2FC 1/4W 1001G |
| FR108 | *ER-341493 | R FUSE H S10 ERD2FC 1/4W 1001G |
| IC101 | EI-354080 | IC UPC1237H |
| L101 | EO-332116 | COIL FIX 2 103AK-006A 2R2K |
| R103 | *ER-324186 | R CB H S10 FS RDS 1/4W 681J |
| R105 | *ER-355214 | R OMF H S15 FS 2W 151J |
| R110 | ER-383007J | R OMF H S12 FS 1W 1R0J |
| R111 | ER-383007J | R OMF H S12 FS 1W 1R0J |
| R112 | ER-383007J | R OMF H S12 FS 1W 1R0J |
| R113 | ER-383007J | R OMF H S12 FS 1W 1R0J |
| R114 | *ER-368226 | R CT P R33+R33 5W |
| R115 | *ER-368226 | R CT P R33+R33 5W |
| R116 | ER-400150J | R OMF H S20 FS 3W 4R7J |
| R117 | ER-381266J | R OMF H S20 FS 3W 100J |
| R152 | ER-381265J | R OMF H S20 FS 3W 561J |
| RL101 | EQ-403529J | RELAY POW 12S MBU524UL3 2NO12V |
| RL102 | EQ-403529J | RELAY POW 12S MBU524UL3 2NO12V |
| RL103 | EQ-403529J | RELAY POW 12S MBU524UL3 2NO12V |
| TR101 | ET-368047 | TR 2SC2910 S |
| TR102 | *ET-368047 | TR 2SC2910 S |
| TR103 | *ET-368048 | TR 2SA1208 S |
| TR108A | *ET-368759 | TR 2SC3854 P,Y [AM-57] |
| TR108B | *ET-390070J1 | TR 2SC3855 P,Y LF118 [AM-67] |
| TR109A | *ET-368759 | TR 2SC3854 P,Y [AM-57] |
| TR109B | *ET-390070J1 | TR 2SC3855 P,Y LF118 [AM-67] |
| TR110A | *ET-368757 | TR 2SA1490 P,Y [AM-57] |
| TR110B | *ET-390074J1 | TR 2SA1491 P,Y LF118 [AM-67] |
| TR111A | *ET-368757 | TR 2SA1490 P,Y [AM-57] |
| TR111B | *ET-390074J1 | TR 2SA1491 P,Y LF118 [AM-67] |
| TR112 | ET-378524J | TR 2SC3383 S,T,U |
| TR113 | ET-368048 | TR 2SA1208 S |
| TR114 | ET-397160J | TR 2SC3330 R,S,T,U,V |
| TR115 | ET-397160J | TR 2SC3330 R,S,T,U,V |
| TR116 | ET-378524J | TR 2SC3383 S,T,U |
| TR117 | ET-378524J | TR 2SC3383 S,T,U |
| TR118 | ET-378524J | TR 2SC3383 S,T,U |
| TR119 | ET-378524J | TR 2SC3383 S,T,U |

5. MAIN AMP (C) P.C BOARD (POWER)

| Ref.No. | Part No. | Description |
|---------|-------------|---|
| D201 | *ED-379981J | D SILICON EG01LF-F4 F10 400/0.7A |
| D202 | *ED-379981J | D SILICON EG01LF-F4 F10 400/0.7A |
| D203 | *ED-379981J | D SILICON EG01LF-F4 F10 400/0.7A |
| D204 | *ED-379981J | D SILICON EG01LF-F4 F10 400/0.7A |
| D205 | *ED-377933 | D ZENER H HZ27-3LFA F10 |
| D206 | *ED-377933 | D ZENER H HZ27-3LFA F10 |
| D207 | *ED-377933 | D ZENER H HZ27-3LFA F10 |
| D208 | *ED-377933 | D ZENER H HZ27-3LFA F10 |
| D209 | *ED-370990 | D SILICON 1SR35-100AHS F10 |
| D210 | *ED-370990 | D SILICON 1SR35-100AHS F10 |
| D211 | *ED-346557 | D ZENER H HZ12A3L |
| D212 | *ED-346529 | D ZENER H HZ6C2L |
| D213 | *ED-309959 | D ZENER H HZ5 C3 [AM-67] |
| D214 | *ED-370990 | D SILICON 1SR35-100AHS F10 [AM-67] |
| D215 | *ED-370990 | D SILICON 1SR35-100AHS F10 [AM-67] |
| D216 | *ED-370990 | D SILICON 1SR35-100AHS F10 [AM-67] |
| D217 | *ED-370990 | D SILICON 1SR35-100AHS F10 [AM-67] |
| D218 | *ED-346567 | D ZENER H HZ16-1L [AM-67] |
| D219 | *ED-346567 | D ZENER H HZ16-1L [AM-67] |
| FR221 | *ER-326169 | R FUSE H S10 ERD2FC 1/4W 22R0G [AM-67] |
| FR222 | *ER-326169 | R FUSE H S10 ERD2FC 1/4W 22R0G [AM-67] |
| R205 | ER-378499J | R CB H S10FLR RDS 1/4W 100J |
| R206 | ER-378499J | R CB H S10FLR RDS 1/4W 100J |
| R208 | *ER-382614J | R CB H S10FLR RDS 1/4W 2R2J |
| R209 | ER-375110 | R CB H S10FLR RDS 1/4W 820J |
| R223 | *ER-385453 | R OMF H S12 FS 1W 1R5J |
| TR201 | *ET-368048 | TR 2SA1208 S |
| TR202 | *ET-368048 | TR 2SA1208 S |
| TR203 | *ET-368047 | TR 2SC2910 S |
| TR204 | *ET-368047 | TR 2SC2910 S |
| TR205 | *ET-385557J | TR 2SC3298 Y |
| TR206 | *ET-385577J | TR 2SA1306 Y |
| TR207 | *ET-371028 | TR 2SD1266 P,Q |
| TR208 | *ET-352726 | TR 2SA1392 T,U |
| TR209 | *ET-352726 | TR 2SA1392 T,U |
| TR210 | *ET-403526J | TR 2SC3902 S,T |
| TR211 | *ET-352726 | TR 2SA1392 T,U [AM-67] |
| TR212 | *ET-403527J | TR 2SA1507 S,T [AM-67] |
| TR213 | *ET-371028 | TR 2SD1266 P,Q [AM-67] |
| TR214 | ET-352726 | TR 2SA1392 T,U [AM-67] |
| TR215 | *ET-352726 | TR 2SA1392 T,U [AM-67] |
| TR216 | ET-378524J | TR 2SC3383 S,T,U [AM-67] |
| TR217 | *ET-378524J | TR 2SC3383 S,T,U [AM-67] |
| TR218 | *ET-345625 | TR 2SC3116 S,T [AM-67] |
| TR219 | *ET-345626 | TR 2SA1248 S,T [AM-67] |
| TR220 | *ET-378524J | TR 2SC3383 S,T,U |
| F2 | *EF-355374 | FUSE BET T 250V 500MA |
| F3 | *EF-355374 | FUSE BET T 250V 500MA |
| F4 | *EF-359007 | FUSE BET T 250V 1.25A |
| F5 | *EF-359007 | FUSE BET T 250V 1.25A |

6. MAIN AMP (D) P.C BOARD (SP)

| Ref.No. | Part No. | Description |
|---------|------------|--------------------------------|
| TM301 | EJ-404095J | TERMINAL W/SCREW LTS2810-1001R |

7. MAIN AMP (E) P.C BOARD (FILTER)

| Ref.No. | Part No. | Description |
|---------|------------|----------------------------------|
| L401 | *EO-332116 | COIL FIX 2 103AK-006A 2R2K |
| L402 | *EO-332116 | COIL FIX 2 103AK-006A 2R2K |
| F1A | *EF-355399 | FUSE BET T 250V 5.00A [AM-57] |
| F1B | *EF-359517 | FUSE BET T 250V 6.30A [AM-67] |

8. MAIN AMP (F) P.C.BOARD (POWER SW)

| Ref.No. | Part No. | Description |
|---------|------------|------------------------------------|
| C501 | *EC-338496 | C CE V DE7 FZ 472P 400AC |
| SW501A | *ES-361970 | SW PUSH SDDL1 01-1 [AM-57] |
| SW501B | *ES-355407 | SW PUSH ESB-99713V TV-8 [AM-67] |

9. MAIN AMP (G) P.C BOARD (HEAD PHONE)

| Ref.No. | Part No. | Description |
|---------|------------|------------------------------|
| J601 | EJ-391132J | PHONE J 3P YKB24-5162 GP 6.3 |

10. MAIN AMP (H) P.C BOARD (THERMO L)

| Ref.No. | Part No. | Description |
|---------|-------------|------------------|
| TR104 | *ET-378524J | TR 2SC3383 S,T,U |
| TR105 | *ET-352726 | TR 2SA1392 T,U |
| TR106 | *ET-403526J | TR 2SC3902 S,T |
| TR107 | *ET-403527J | TR 2SA1507 S,T |

11. MAIN AMP (J) P.C BOARD (THERMO R)

| Ref.No. | Part No. | Description |
|---------|-------------|------------------|
| TR104 | *ET-378524J | TR 2SC3383 S,T,U |
| TR105 | *ET-352726 | TR 2SA1392 T,U |
| TR106 | *ET-403526J | TR 2SC3902 S,T |
| TR107 | *ET-403527J | TR 2SA1507 S,T |

12. PRE AMP (A) P.C BOARD (INPUT)

| Ref.No. | Part No. | Description |
|---------|------------|-----------------------------|
| D1 | ED-330219 | D ZENER H HZ20-2L |
| D2 | ED-330219 | D ZENER H HZ20-2L |
| D3 | ED-346567 | D ZENER H HZ16-1L |
| D4 | ED-346567 | D ZENER H HZ16-1L |
| D5 | ED-624903 | D SILICON H 1S2473 |
| D6 | ED-624903 | D SILICON H 1S2473 |
| D7 | ED-388120J | D ZENER H HZS3B1 |
| D8 | ED-388120J | D ZENER H HZS3B1 |
| IC1 | EI-348785 | IC M5220L |
| IC2 | EI-403530J | IC LC7822N |
| IC3 | EI-403530J | IC LC7822N |
| J1 | EJ-364546 | PIN J YKC21-0070A P 2P |
| J2 | EJ-390102J | PIN J YKC21-0045A 6P |
| J3 | EJ-390102J | PIN J YKC21-0045A 6P |
| J4 | EJ-390102J | PIN J YKC21-0045A 6P |
| TR1 | ET-378524J | TR 2SC3383 S,T,U |
| TR2 | ET-378524J | TR 2SC3383 S,T,U |
| TR3 | ET-378524J | TR 2SC3383 S,T,U [AM-57] |
| TR4 | ET-378524J | TR 2SC3383 S,T,U |
| TR5 | ET-378524J | TR 2SC3383 S,T,U |

13. PRE AMP (B) P.C BOARD (TONE CONTROL)

| Ref.No. | Part No. | Description |
|---------|------------|------------------------------|
| D101 | *ED-330218 | D ZENER H HZ15-2L |
| D102 | *ED-330218 | D ZENER H HZ15-2L |
| D103 | ED-624903 | D SILICON H 1S2473 |
| D104 | ED-624903 | D SILICON H 1S2473 |
| D105 | ED-624903 | D SILICON H 1S2473 |
| D106 | ED-370990 | D SILICON 1SR35-100AHS F10 |
| D108 | *ED-324013 | D ZENER H HZ20 2 |
| D109 | *ED-324013 | D ZENER H HZ20 2 |
| D110 | *ED-324013 | D ZENER H HZ20 2 |
| D111 | *ED-324013 | D ZENER H HZ20 2 |
| D112 | *ED-324013 | D ZENER H HZ20 2 |
| D113 | *ED-324013 | D ZENER H HZ20 2 |
| D114 | *ED-324013 | D ZENER H HZ20 2 |
| D115 | *ED-324013 | D ZENER H HZ20 2 |
| IC101 | EI-393323J | IC M5218AL-771 |
| IC102 | EI-393323J | IC M5218AL-771 |
| RL101 | EQ-400957J | RELAY SIG RY12W-OH-K 2TR 12V |
| SW101 | ES-403531J | SW ROTARY SRBV17 01-07N |
| SW102 | ES-401263J | SW ROTARY SRBV22 02-02N |
| SW103 | ES-403532J | SW ROTARY SRBV14 01-04N |
| SW104 | ES-403533J | SW PUSH SPEC21 2THROW S |
| TR101 | ET-321016 | TR FET 2SK117 GR,BL |
| TR102 | ET-321016 | TR FET 2SK117 GR,BL |
| TR103 | *ET-338244 | TR 2SA1207 R,S |
| TR104 | *ET-338244 | TR 2SA1207 R,S |
| TR105 | *ET-348830 | TR 2SC2909 S,T |
| TR106 | *ET-348830 | TR 2SC2909 S,T |
| TR107 | ET-348830 | TR 2SC2909 S,T |
| TR108 | ET-348830 | TR 2SC2909 S,T |
| TR109 | ET-348830 | TR 2SC2909 S,T |
| TR110 | ET-348830 | TR 2SC2909 S,T |
| TR111 | ET-338244 | TR 2SA1207 R,S |
| TR112 | ET-338244 | TR 2SA1207 R,S |
| TR113 | ET-338244 | TR 2SA1207 R,S |
| TR114 | ET-338244 | TR 2SA1207 R,S |
| TR116 | ET-378524J | TR 2SC3383 S,T,U |
| TR117 | ET-378524J | TR 2SC3383 S,T,U |
| TR118 | ET-353899 | TR 2SA1317 S,T,U |
| TR119 | ET-353899 | TR 2SA1317 S,T,U |
| TR120 | ET-397160J | TR 2SC3330 R,S,T,U,V |
| TR121 | ET-397160J | TR 2SC3330 R,S,T,U,V |
| VR101 | EV-401270J | VR ROTARY RK16312 B103X2 |
| VR102 | EV-401270J | VR ROTARY RK16312 B103X2 |
| VR103 | EV-403534J | VR ROTARY RK1631220 SPL W104 |

14. PRE AMP (C) P.C BOARD (MAIN VR)

| Ref.No. | Part No. | Description |
|---------|------------|------------------------------------|
| VR201A | EV-403537J | VR SPL RK16312MC D104X2 [AM-57] |
| VR201B | EV-403535J | VR SPL RK18112MC D104X2 [AM-67] |

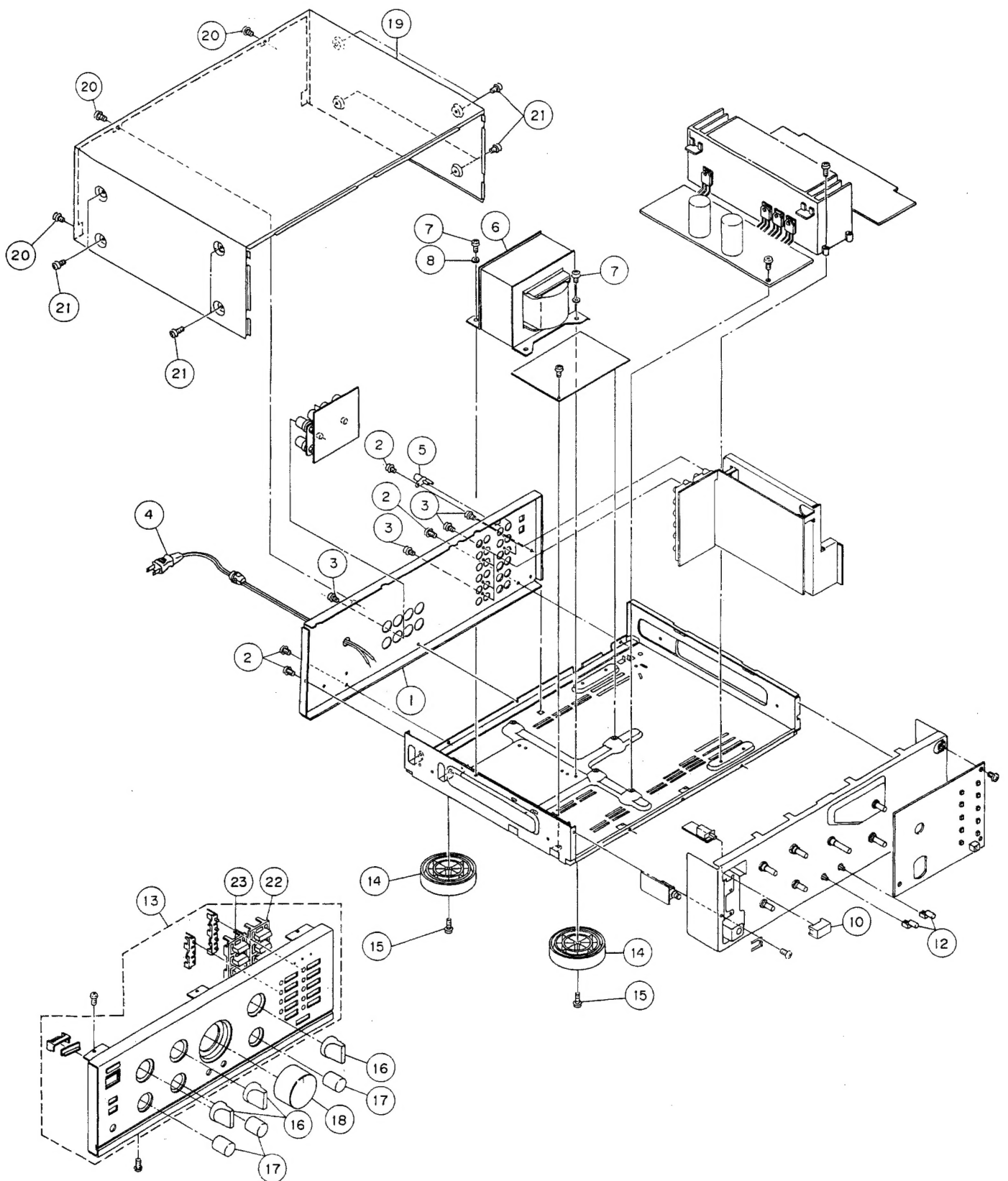
15. PRE AMP (D) P.C BOARD (LED)

| Ref.No. | Part No. | Description |
|---------|------------|--------------------------------------|
| D301 | ED-403987J | D LED SLR33MC3F GREEN [POWER LED] |
| D302 | ED-403987J | D LED SLR33MC3F GREEN [POWER LED] |

16. SYSTEM CONTROL P.C BOARD

| Ref.No. | Part No. | Description |
|---------|------------|---|
| C1 | *EC-368118 | C DBL LAYER EECS5R5H 224 5.5DC |
| D1 | ED-400680J | D LED SLR33MC70F80 GREEN T05 |
| D2 | ED-400680J | D LED SLR33MC70F80 GREEN T05 |
| D3 | ED-400680J | D LED SLR33MC70F80 GREEN T05 |
| D4 | ED-400680J | D LED SLR33MC70F80 GREEN T05 |
| D5 | ED-400680J | D LED SLR33MC70F80 GREEN T05 |
| D6 | ED-400680J | D LED SLR33MC70F80 GREEN T05 |
| D7 | ED-400680J | D LED SLR33MC70F80 GREEN T05 |
| D8 | ED-400680J | D LED SLR33MC70F80 GREEN T05 [AM-67] |
| D9 | ED-400680J | D LED SLR33MC70F80 GREEN T05 [AM-67] |
| D10 | ED-400680J | D LED SLR33MC70F80 GREEN T05 [AM-67] |
| D11 | ED-400680J | D LED SLR33MC70F80 GREEN T05 [AM-67] |
| D12 | ED-400680J | D LED SLR33MC70F80 GREEN T05 [AM-67] |
| D13 | ED-400680J | D LED SLR33MC70F80 GREEN T05 [AM-67] |
| D14 | ED-403436J | D LED SLR-33VC70F80 RED T05 |
| D15 | ED-624903 | D SILICON H 1S2473 |
| D16 | ED-624903 | D SILICON H 1S2473 |
| D17 | ED-624903 | D SILICON H 1S2473 |
| D18 | ED-624903 | D SILICON H 1S2473 [AM-67] |
| D19 | ED-624903 | D SILICON H 1S2473 [AM-67] |
| IC1 | EI-403431J | IC LC66404 4702 AM67AP1 |
| PH1 | ET-403432J | DETECTOR SPS-420-1 |
| TR1 | ET-353897 | TR DTC114ES |
| TR2 | ET-356336 | TR DTA114ES |
| TR3 | ET-353899 | TR 2SA1317 S,T,U [AM-67] |
| TR4 | ET-354414 | TR DTC144ES [AM-67] |
| TS1 | ES-396610J | SW TACT SOR-122HS T05 |
| TS2 | ES-396610J | SW TACT SOR-122HS T05 |
| TS3 | ES-396610J | SW TACT SOR-122HS T05 |
| TS4 | ES-396610J | SW TACT SOR-122HS T05 |
| TS5 | ES-396610J | SW TACT SOR-122HS T05 |
| TS6 | ES-396610J | SW TACT SOR-122HS T05 |
| TS7 | ES-396610J | SW TACT SOR-122HS T05 |
| TS8 | ES-396610J | SW TACT SOR-122HS T05 [AM-67] |
| TS9 | ES-396610J | SW TACT SOR-122HS T05 [AM-67] |
| TS10 | ES-396610J | SW TACT SOR-122HS T05 [AM-67] |
| X1 | EI-396490J | OSC CE CST4.00MGW-TF01 T05 |

FINAL ASSEMBLY BLOCK



17. DAC P.C BOARD (AM-67)

| Ref.No. | Part No. | Description |
|---------|-------------|--------------------------------|
| D1 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| D2 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| D3 | ED-344280 | D SILICON H GMA-01-FY2 F05 |
| D4 | ED-346525 | D ZENER H HZ6A3L |
| D5 | ED-346525 | D ZENER H HZ6A3L |
| D6 | ED-343410 | D ZENER H HZ6A1L |
| IC1 | EI-360040J1 | IC TC74HCU04AP |
| IC2 | EI-390063J | IC PD0037 |
| IC3 | EI-403437J | IC SM-5840AP |
| IC4 | EI-403498J | IC PCM67P |
| IC5 | EI-362587 | IC M5238L |
| IC6 | EI-362587 | IC M5238L |
| J3 | EJ-390086J | PIN J T6180-BAAA ORANGE 2P |
| J4 | EJ-394490J | SOCKET OPTICAL GP1F32T |
| J5 | EJ-394459J | SOCKET OPTICAL GP1F32R |
| L1 | EO-403342J | COIL FIX 1 LAP02 F05 4R7K |
| L2 | EO-403342J | COIL FIX 1 LAP02 F05 4R7K |
| FR20 | *ER-344161 | R FUSE H S10 ERD2FC 1/4W 82R0G |
| FR120 | *ER-344161 | R FUSE H S10 ERD2FC 1/4W 82R0G |
| TR1 | ET-353897 | TR DTC114ES |
| TR2 | ET-354414 | TR DTC144ES |
| TR3 | ET-353897 | TR DTC114ES |
| TR4 | ET-349705 | TR 2SC2320 E,F,G |
| TR5 | ET-349705 | TR 2SC2320 E,F,G |
| TR6 | ET-378524J | TR 2SC3383 S,T,U |
| TR7 | ET-354414 | TR DTC144ES |
| TR8 | ET-356336 | TR DTA114ES |
| TR106 | ET-378524J | TR 2SC3383 S,T,U |

18. FINAL ASSEMBLY BLOCK

| Ref.No. | Part No. | Description |
|---------|---------------|--------------------------------------|
| 1A | SP-403081J | PANEL REAR AM-57 (E) |
| 1B | SP-403082J | PANEL REAR AM-57 (V) |
| 1C | SP-403083J | PANEL REAR AM-57 (B) |
| 1D | SP-403084J | PANEL REAR AM-67 (E) |
| 1E | SP-403085J | PANEL REAR AM-67 (V) |
| 1F | SP-403087J | PANEL REAR AM-67 (B) |
| 2 | ZS-385394J | ST BID30X06STL COP E.LOK C.PK4 |
| 3 | ZS-359226 | T2BR30X10STL BZN PROJECTION |
| 4A | *EW-363670 | AC CORD200 0364 LCFL B150 A FV [E,V] |
| 4B | *EW-363682 | AC CORD200 LCFL B150 A B [B] |
| 5 | EJ-329610 | TERMINAL W/SCREW UB-0067 L 1P |
| 6A | *BT-403427J | TRANS POW A2071 EV [E,V][AM-57] |
| 6B | *BT-403428J | TRANS POW A2071 B [B][AM-57] |
| 6C | *BT-403429J | TRANS POW A2072 EV [E,V][AM-67] |
| 6D | *BT-403430J | TRANS POW A2072 B [B][AM-67] |
| 7 | ZS-346742 | ST BID40X08STL CMT CUP |
| 8 | ZW-274026 | SW50 |
| 10 | SK-373236B | KNOB POWER-B |
| 10-G | SK-373236A | KNOB POWER-G |
| 12 | SK-402898J | BUTTON PUSH-B |
| 12-G | SK-402899J | BUTTON PUSH-G |
| 13A | BD-A2071A060C | PANEL FRONT BLK AM-57-B |
| 13A-G | BD-A2071A060D | PANEL FRONT BLK AM-57-G |
| 13B | BD-A2071A060A | PANEL FRONT BLK AM-67-B |
| 13B-G | BD-A2071A060B | PANEL FRONT BLK AM-67-G |
| 14 | SA-384105J | FOOT ROUND SHAPED (N) |
| 15 | ZS-304021 | ST BID40X12STL CMT |
| 16 | SK-402589J | KNOB SELECTOR-B |
| 16-G | SK-402590J | KNOB SELECTOR-G |
| 17 | SK-402587J | KNOB BALANCE-B |
| 17-G | SK-402588J | KNOB BALANCE-G |
| 18A | SK-402922J | KNOB VOLUME AM-57-B PART |
| 18A-G | SK-402923J | KNOB VOLUME AM-57-G PART |
| 18B | SK-402920J | KNOB VOLUME AM-67-B PART |
| 18B-G | SK-402921J | KNOB VOLUME AM-67-G PART |
| 19 | SP-403088J | COVER UPPER-B |
| 19-G | SP-403089J | COVER UPPER-G |
| 20 | ZS-389964J | ST BID30X08STL COP E.LOK C.PK4 |
| 21 | ZS-322580 | ST BID40X08STL BNI |

| Ref.No. | Part No. | Description |
|---------|------------|----------------------------|
| 21-G | ZS-322570 | ST BID40X08STL NI3 |
| 22A | SK-402902J | BUTTON INPUT (2)-B [AM-57] |
| 22A-G | SK-402903J | BUTTON INPUT (2)-G [AM-57] |
| 22B | SK-402900J | BUTTON INPUT (1)-B [AM-67] |
| 22B-G | SK-402901J | BUTTON INPUT (1)-G [AM-67] |
| 23A | SK-402904J | BUTTON INPUT (3)-B [AM-57] |
| 23A-G | SK-402905J | BUTTON INPUT (3)-G [AM-57] |
| 23B | SK-402900J | BUTTON INPUT (1)-B [AM-67] |
| 23B-G | SK-402901J | BUTTON INPUT (1)-G [AM-67] |

NOTE:

Parts will not be supplied if they are not listed in the parts list, even if they appear on the assembling illustrations with reference No.

19. ACCESSORY

| Ref.No. | Part No. | Description |
|---------|-------------|------------------------|
| 1A | AX-403443J1 | REMOCON RC-A57 [AM-57] |
| 1B | AX-403444J1 | REMOCON RC-A67 [AM-67] |

ABBREVIATIONS (AMPLIFIER)

| ABBREVIATION | EXPLANATION |
|--------------|-----------------------------|
| A | Analog |
| AC | Alternating Current |
| AMP | AMPlifier |
| CD | Compact Disc |
| COM | COMMon |
| D | Digital |
| D/A | Digital to Analog |
| DAC | Digital to Analog Converter |
| DAT | Digital Audio Tape recorder |
| DC | Direct Current |
| GND | GrouND |
| L | Left |
| LED | Light Emitting Diode |
| MC | Moving Coil |
| MM | Moving Magnet |
| PCB | Printed Circuit Board |
| R | Right |
| REG | REGulator |
| REC | RECord |
| TR | TRansistor |
| SW | SWitch |
| V.AMP | Voltage AMPlifier |
| V.DISC | Video DISC |
| VR | Variable Resistance |
| VTR | Video Tape Recorder |

AKAI

MODEL **AM-57**

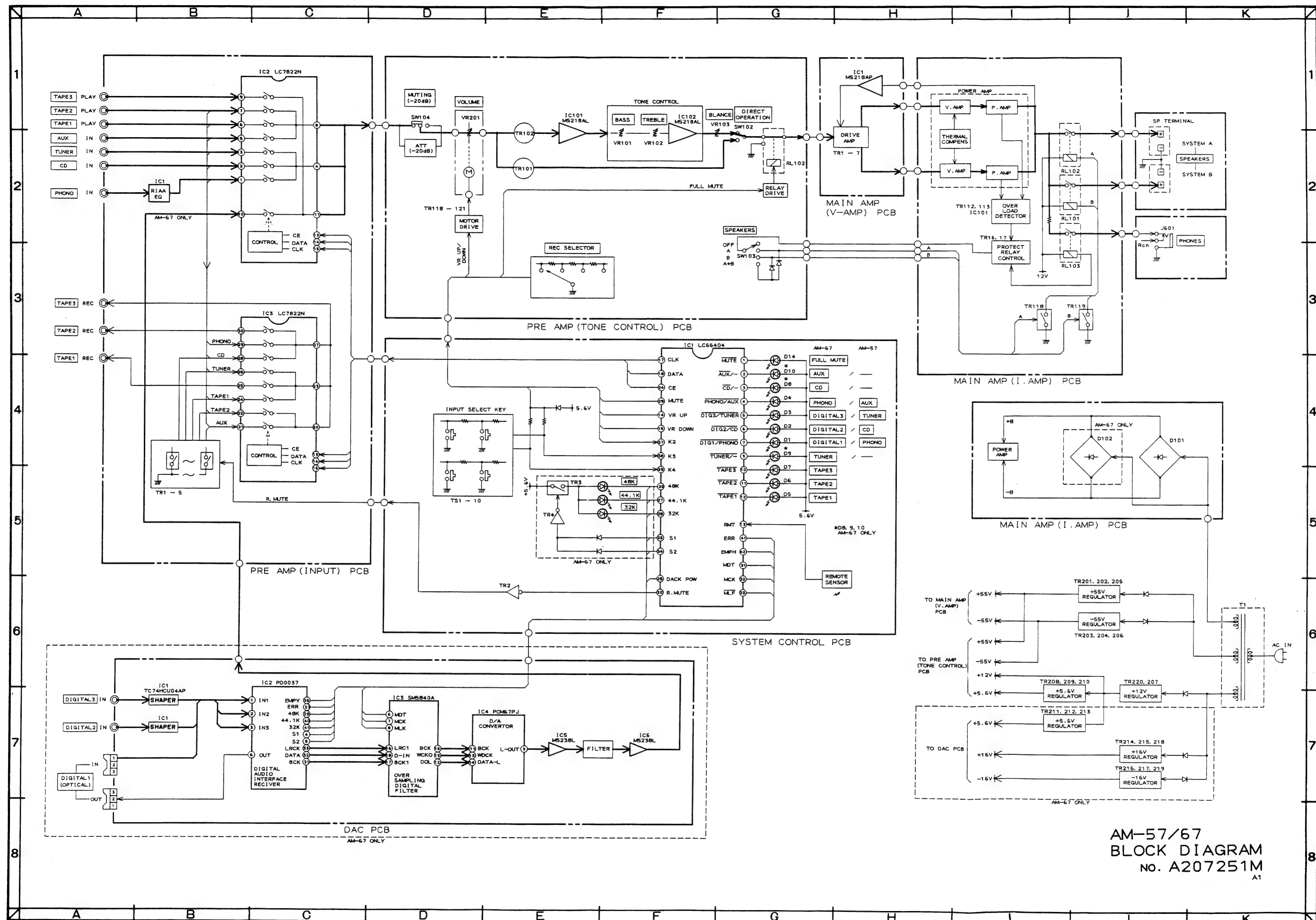
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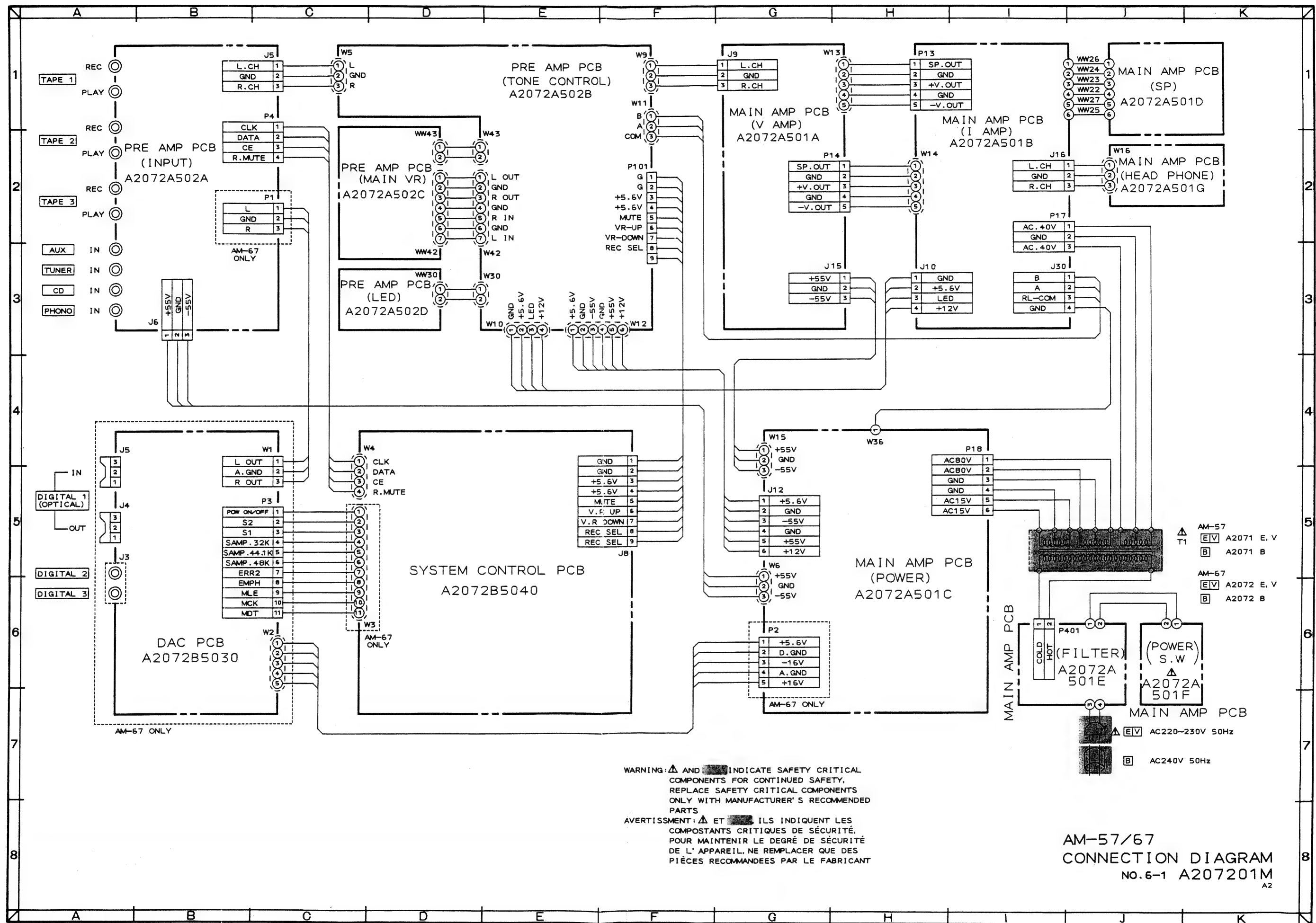
SCHEMATIC DIAGRAMS AND PC BOARDS

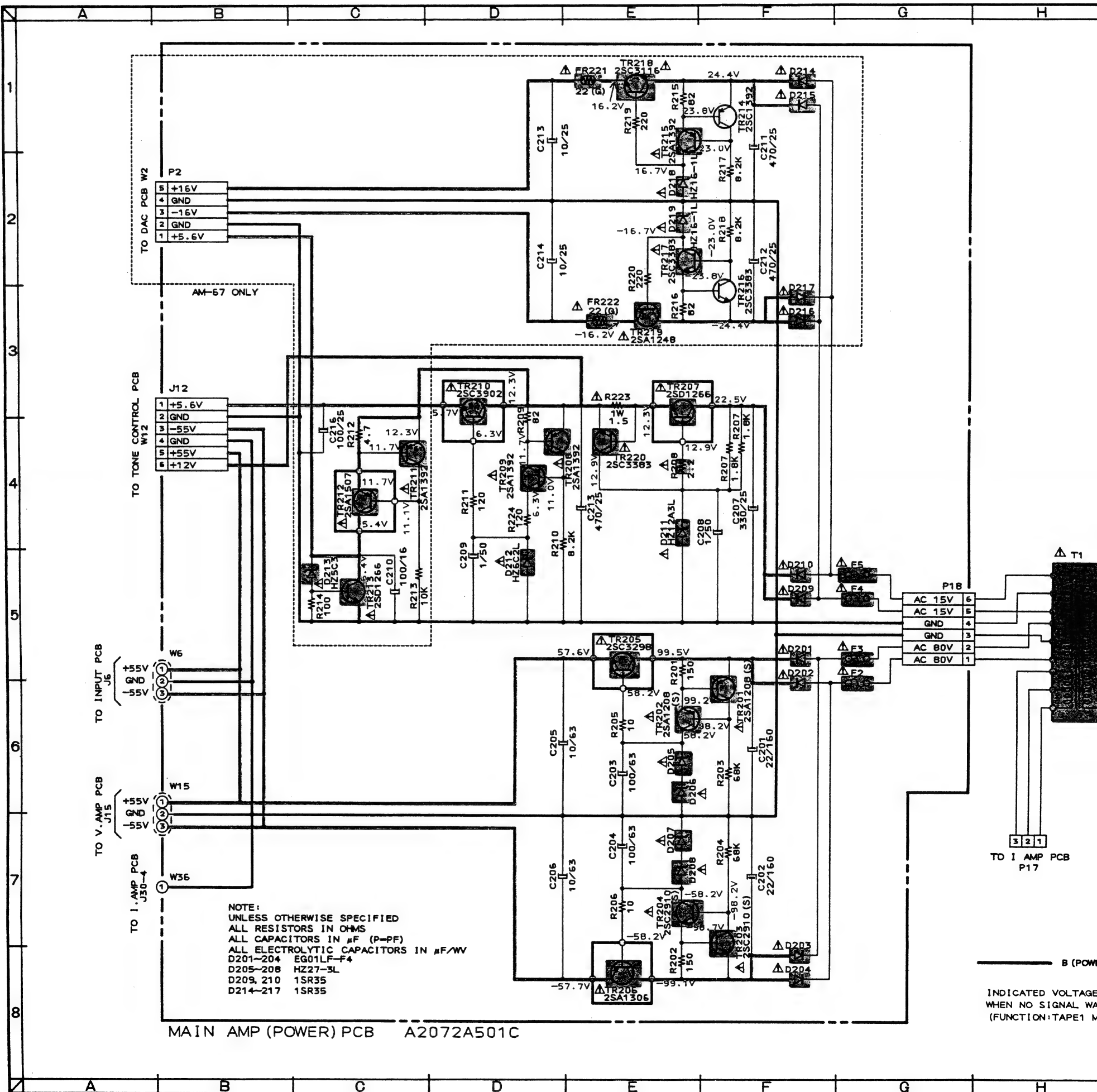
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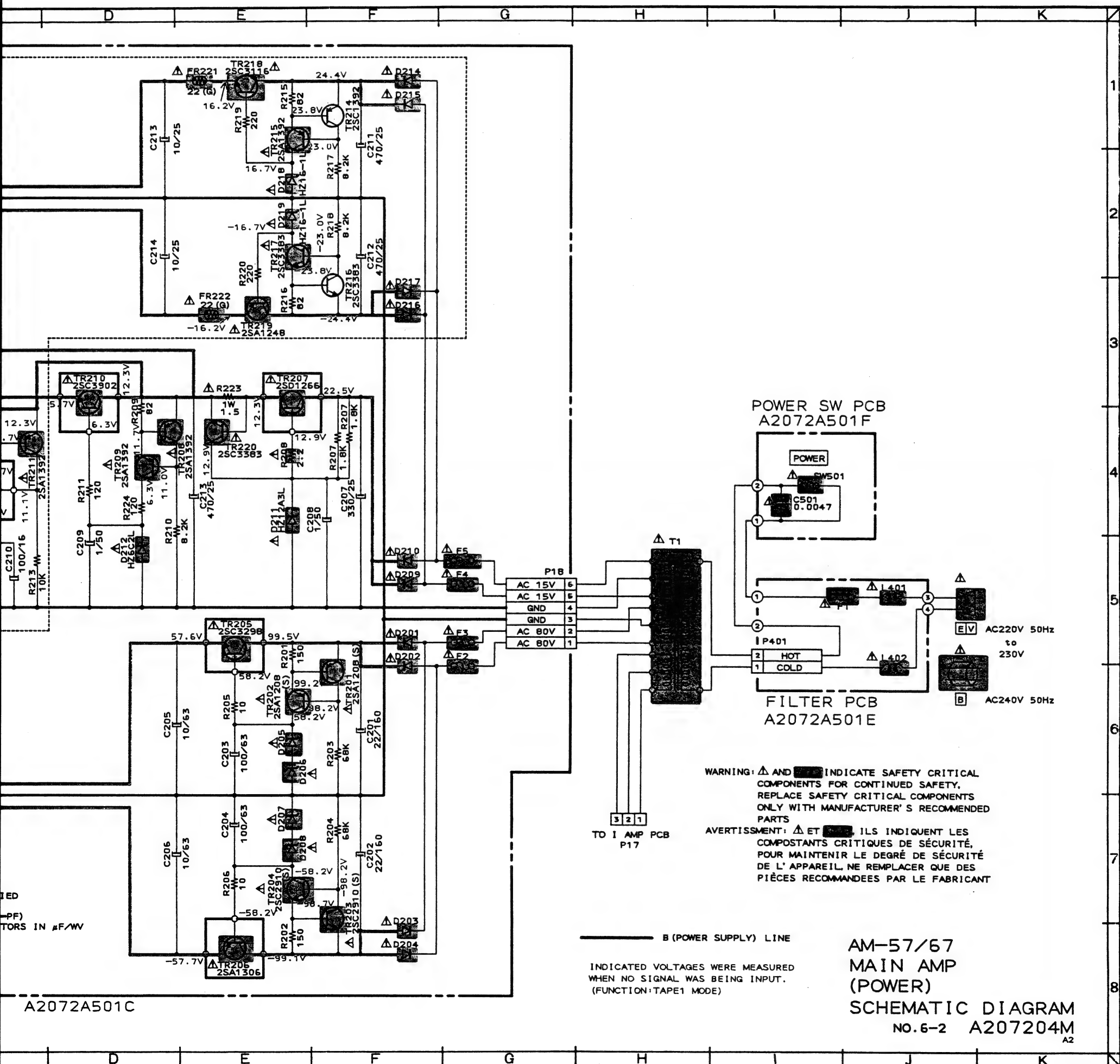
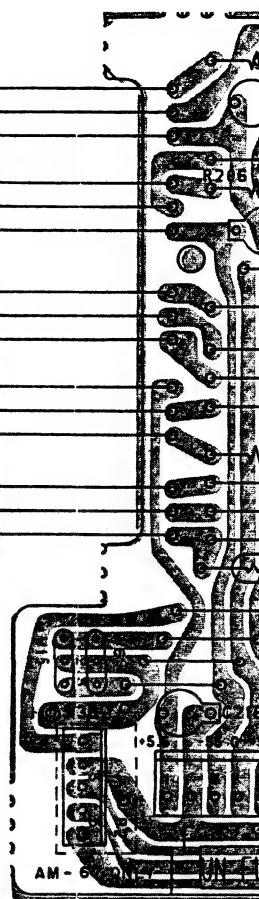
Use the following schematic diagrams and PC boards together with the provided service manual.



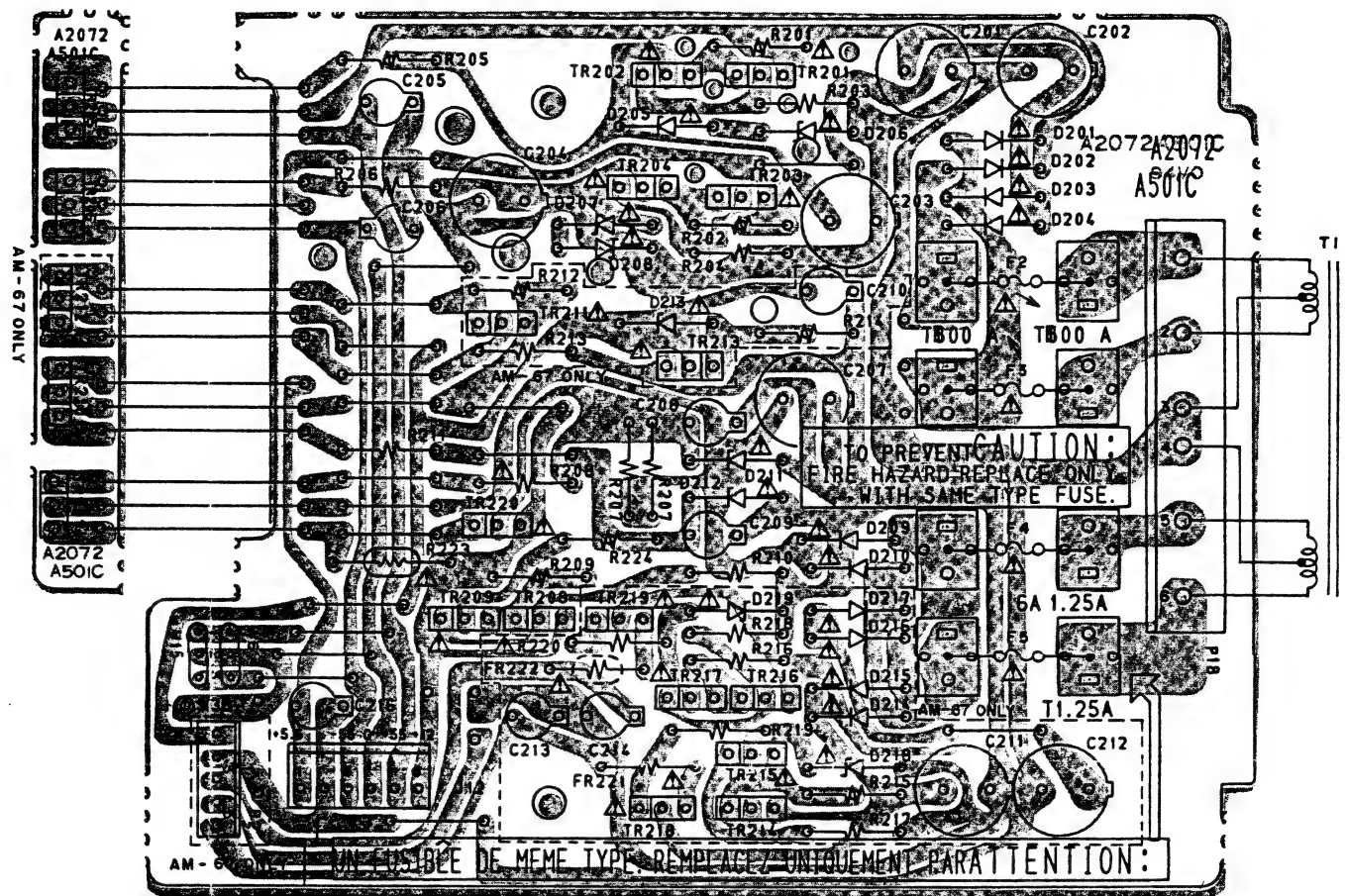




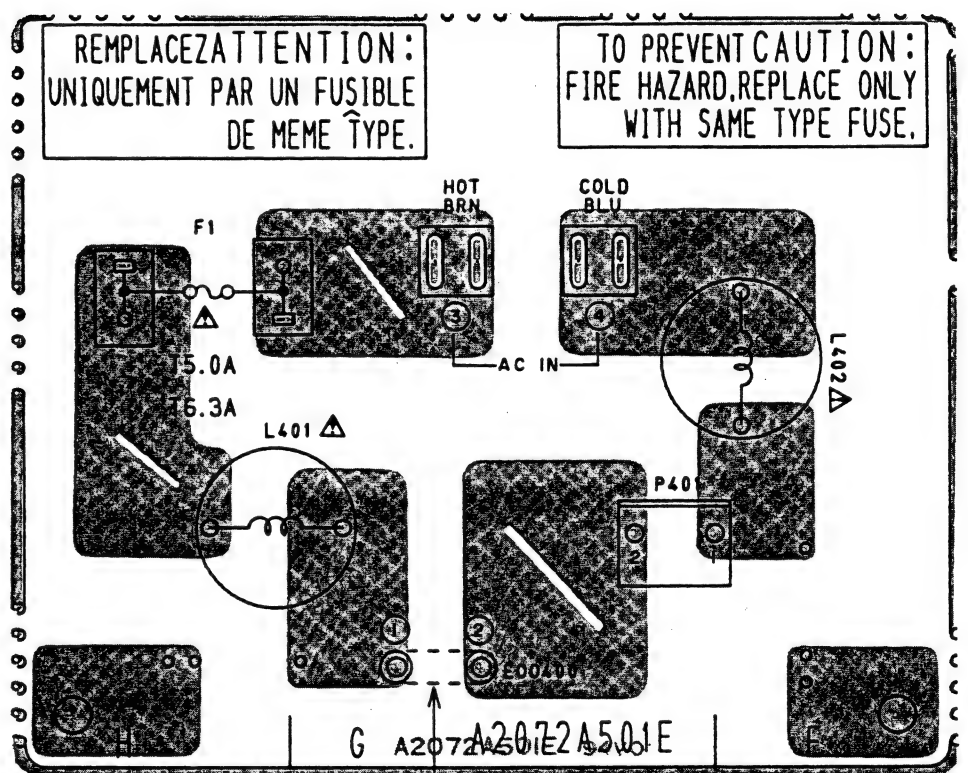
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A501C
AM-67 ONLY
A2072
A501C



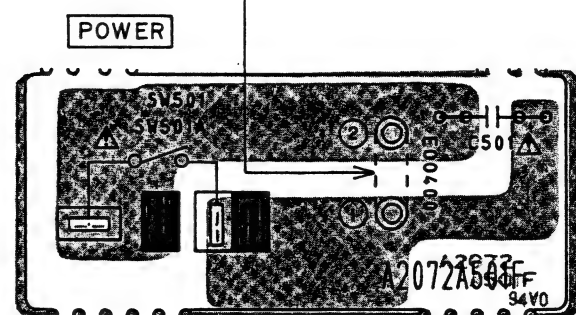
WARNING: Δ AND \blacksquare INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT: Δ ET \blacksquare ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ, POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT



POWER PCB A2072A501C

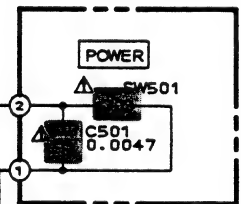


FILTER PCB A2072A501E



POWER SW PCB A2072A501F

POWER SW PCB A2072A501F



FILTER PCB A2072A501E

WARNING: Δ AND \blacksquare INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: Δ ET \blacksquare ILS INDICENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: Δ IL INDIQUE LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

AM-57/67
MAIN AMP
(POWER)
SCHEMATIC DIAGRAM
NO. 6-2 A207204M
A2

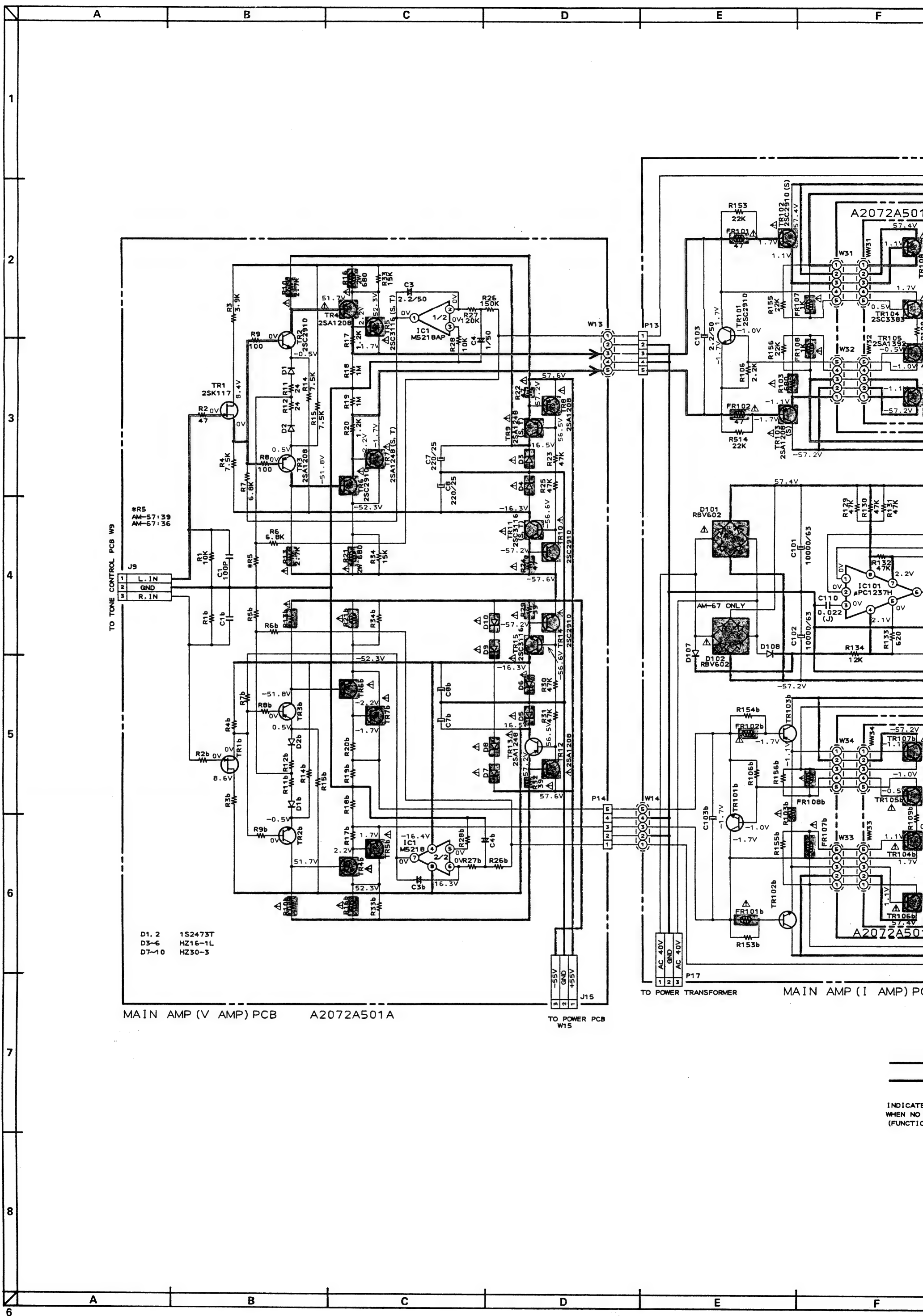
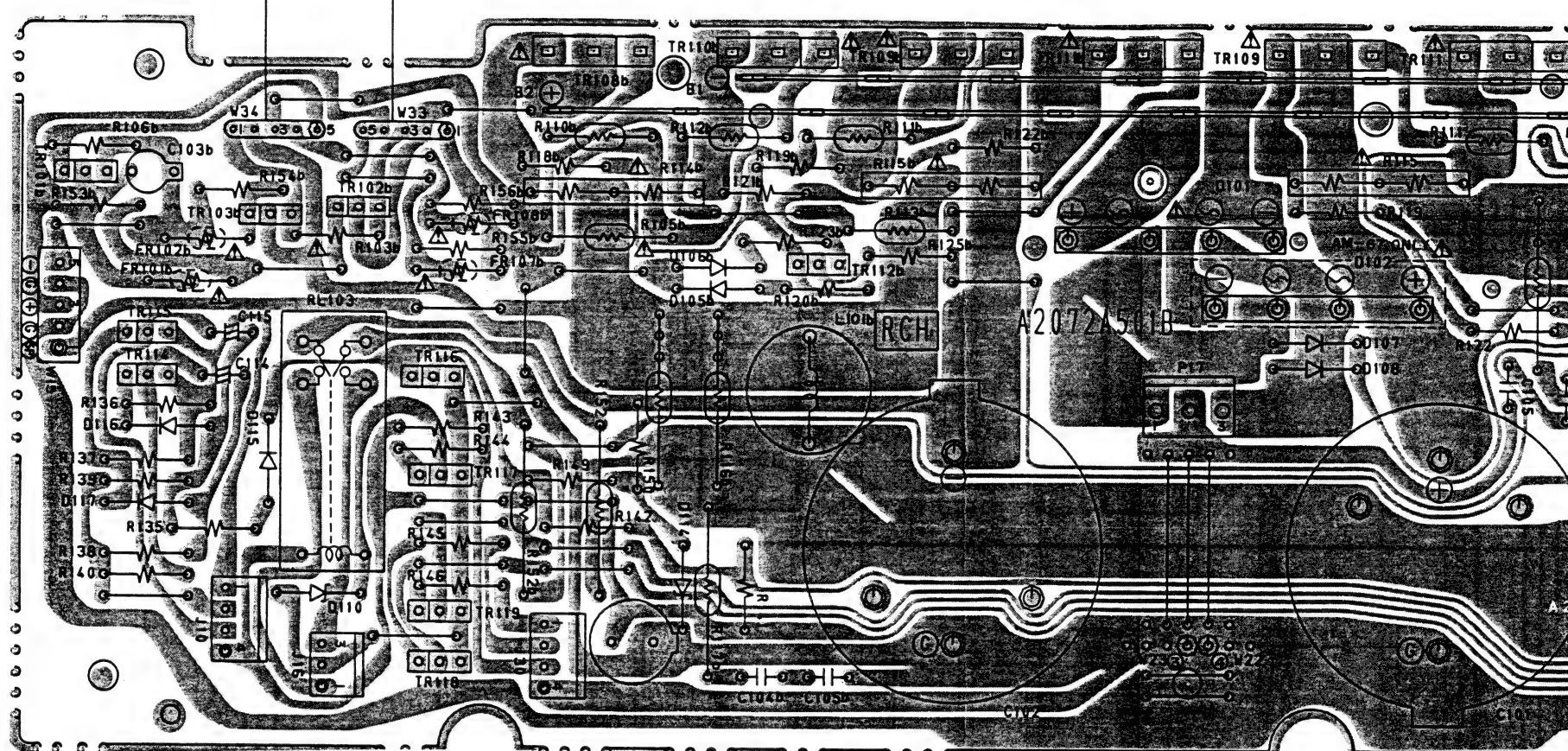


Diagram of the power supply section of the circuit board. It shows two integrated circuits, TRI07b and TRI05b, connected to a transformer. TRI07b is connected to the primary winding, and TRI05b is connected to the secondary winding. TRI09b is connected to the primary winding, and TRI06b and TRI04b are connected to the secondary winding. A501J is connected to the primary winding, and W33 is connected to the secondary winding.

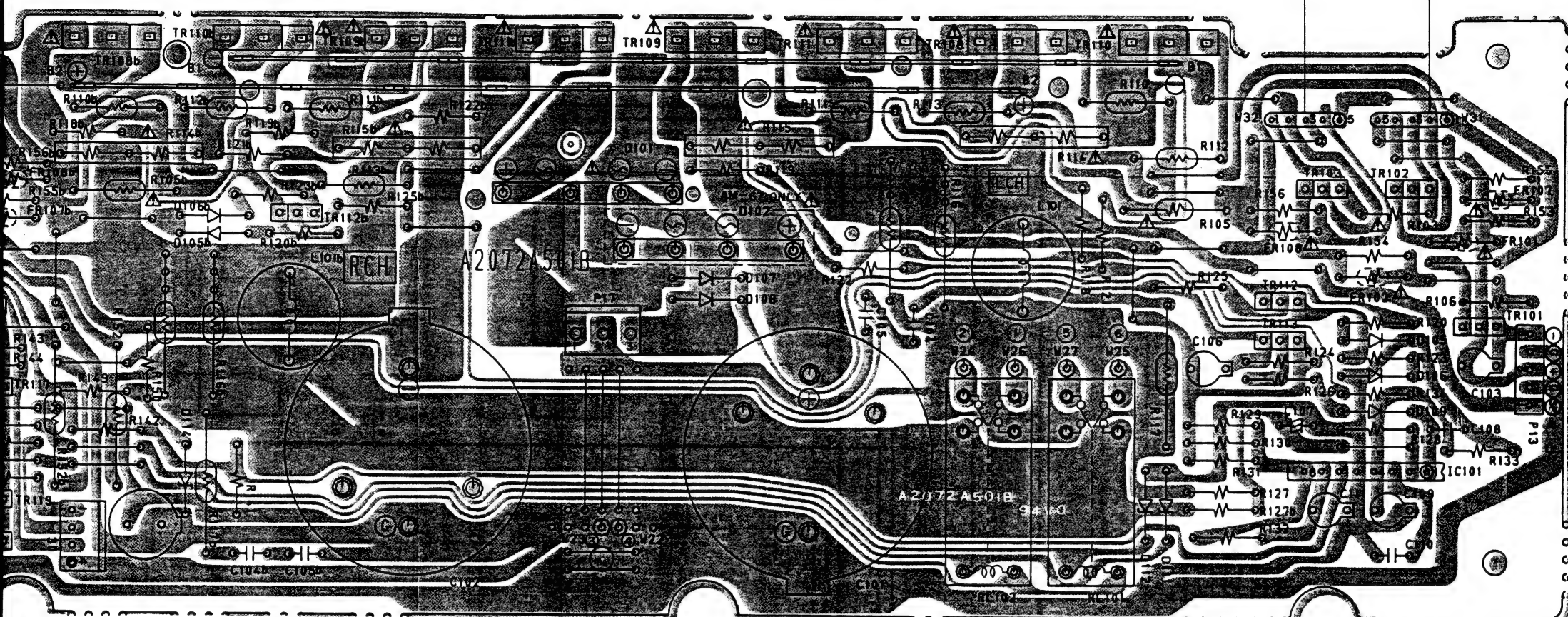
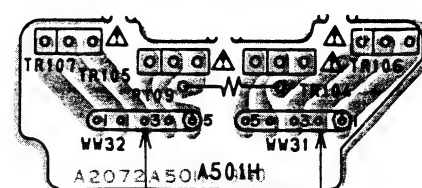


A2072A501A
94V0
403221J

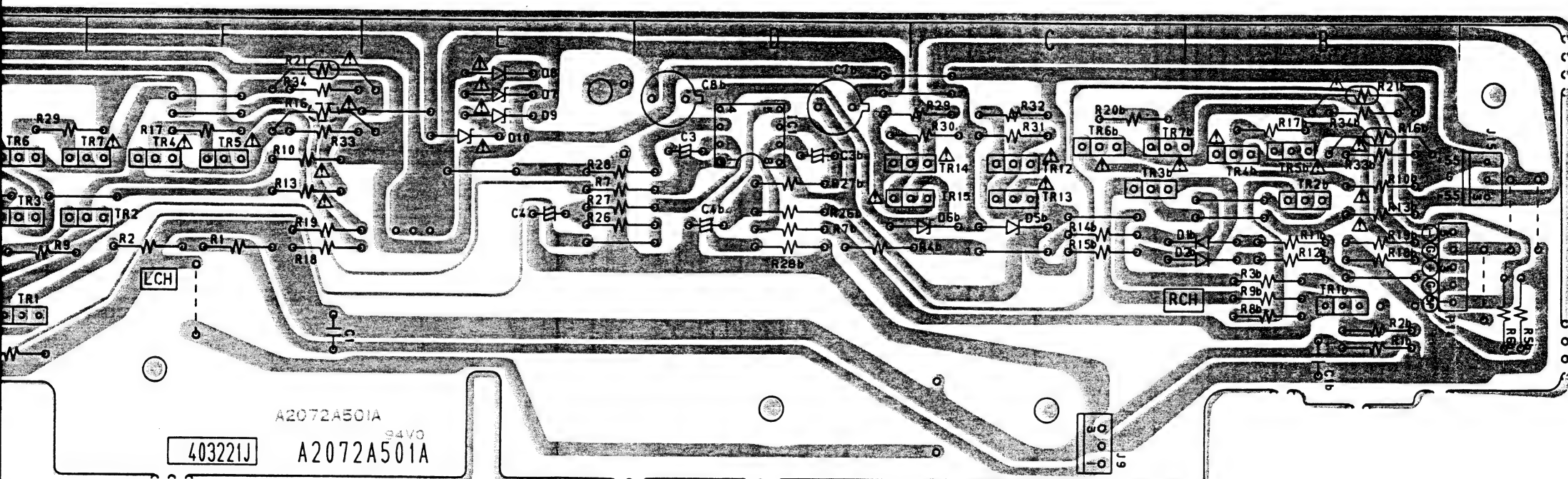
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

THERMO L PCB
A2072A501H



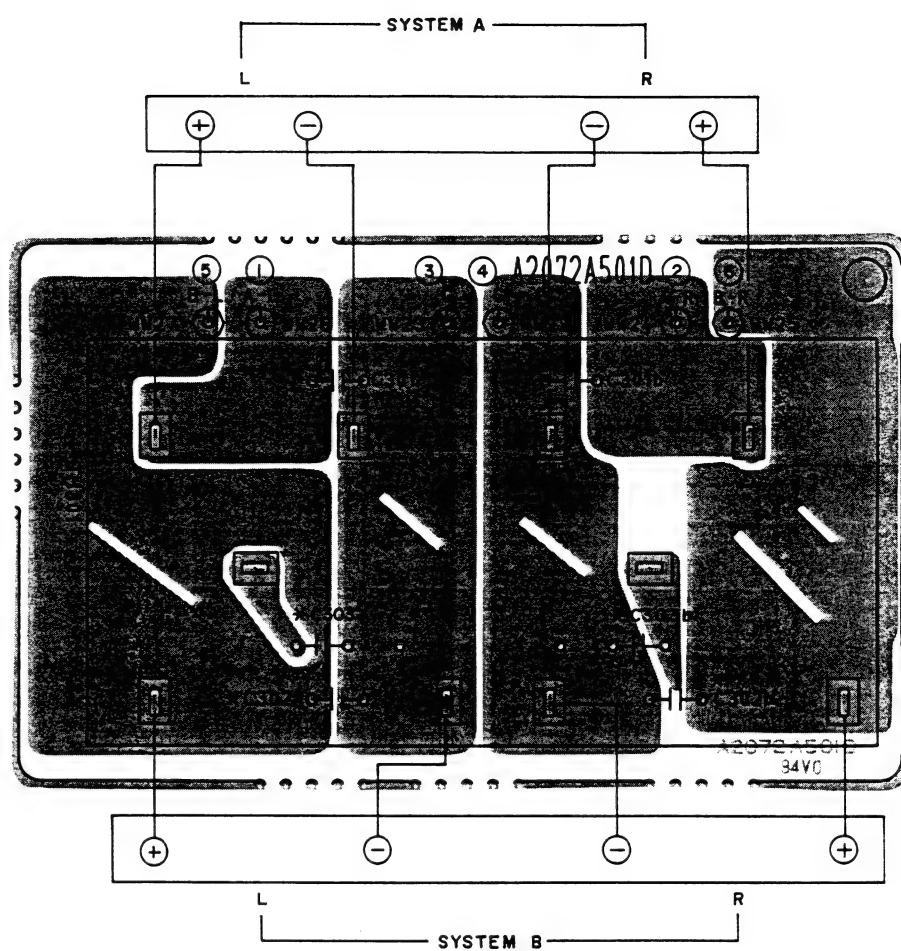
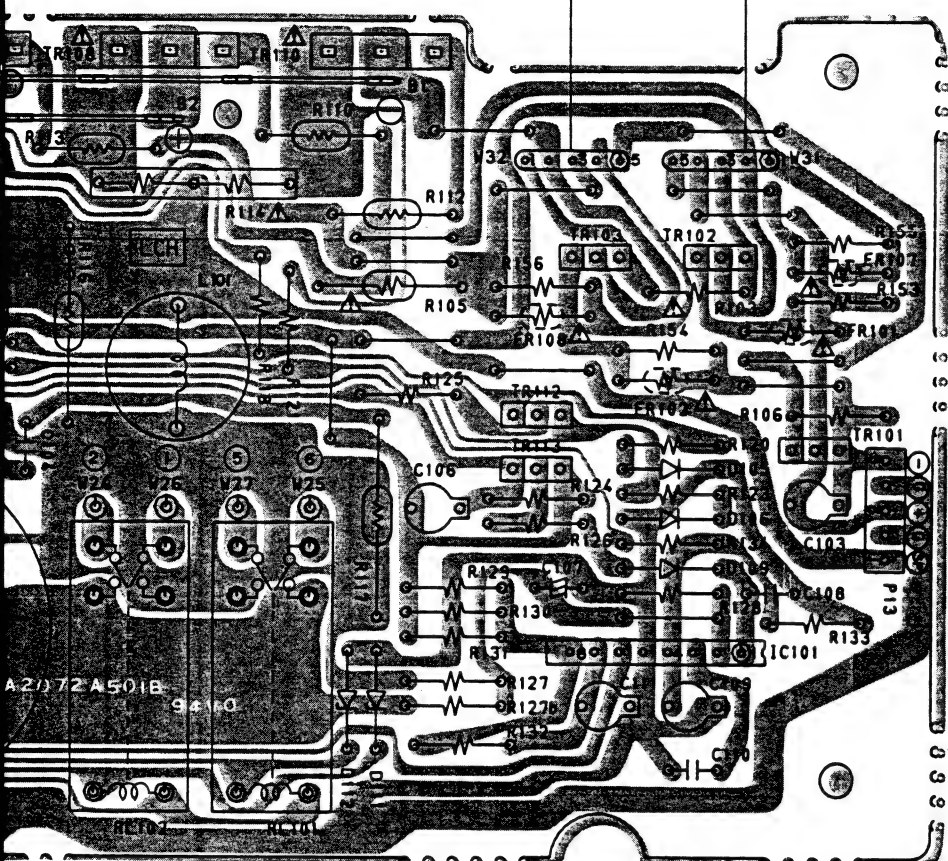
I AMP PCB A2072A501B



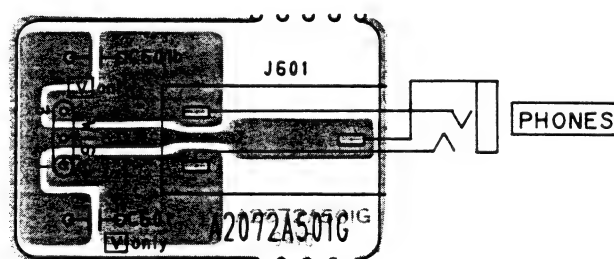
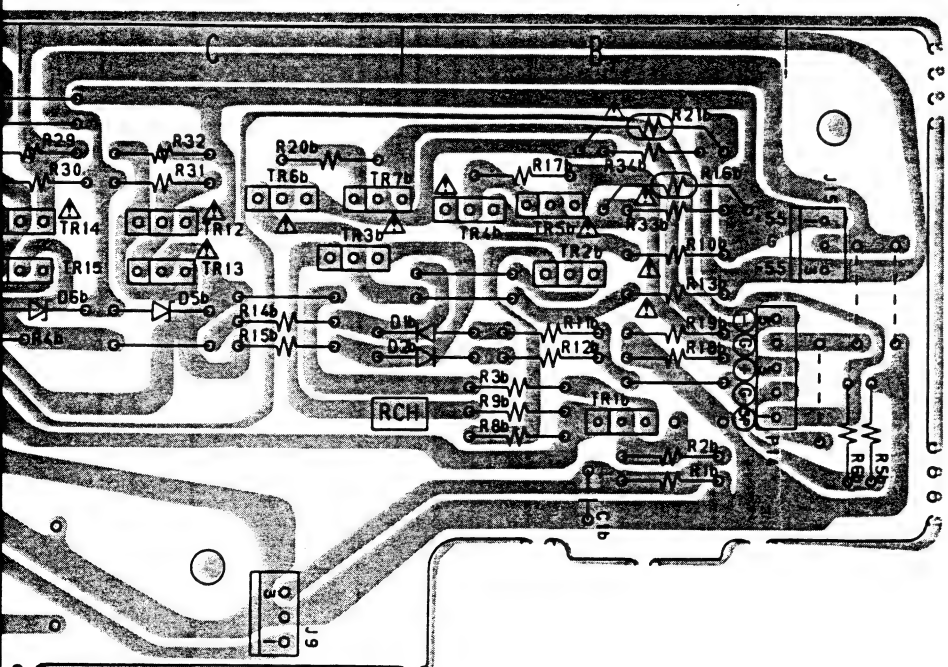
V. AMP PCB A2072A501A

INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY,
REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S
RECOMMENDED PARTS.

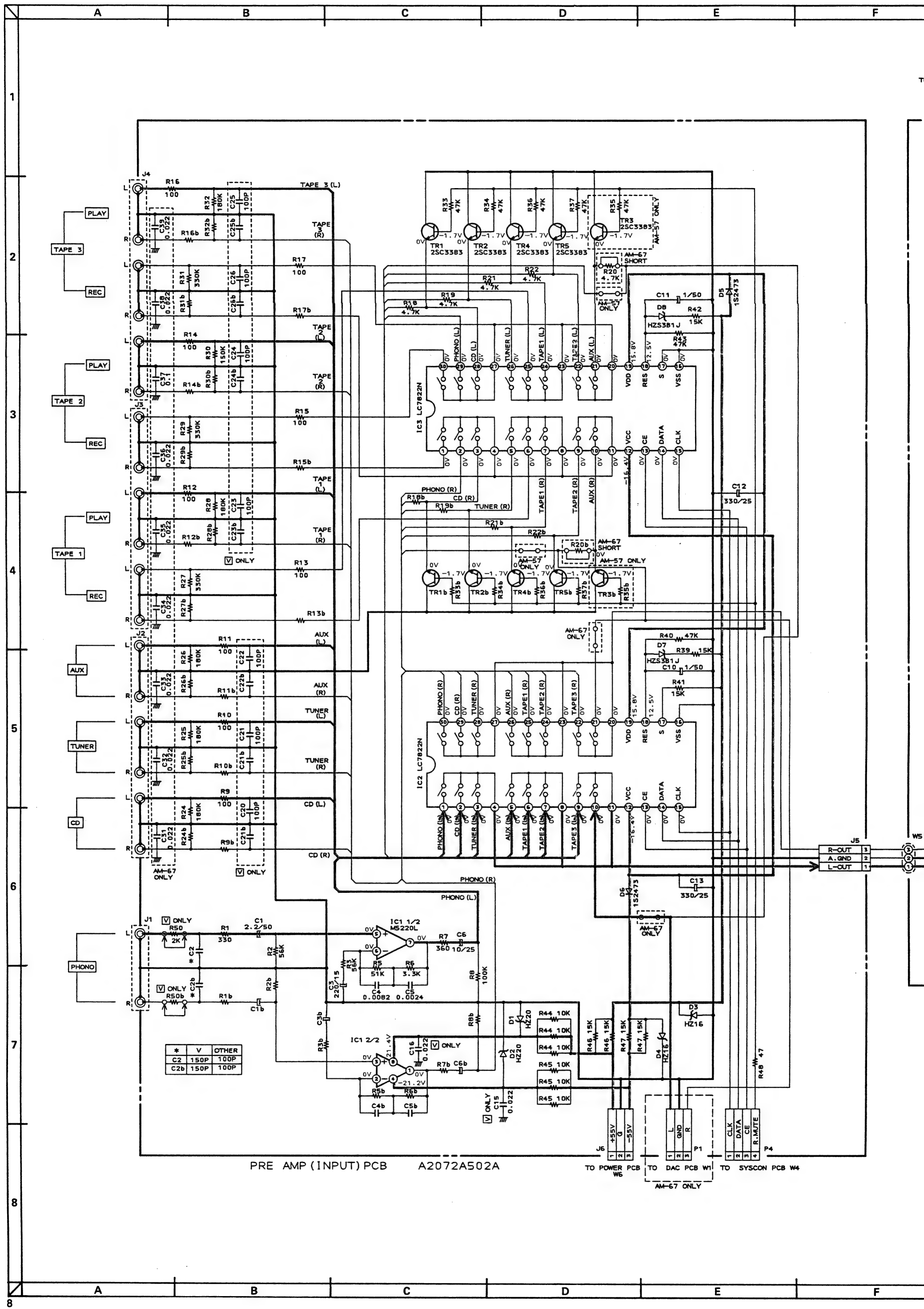
IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ.
MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL.
EMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

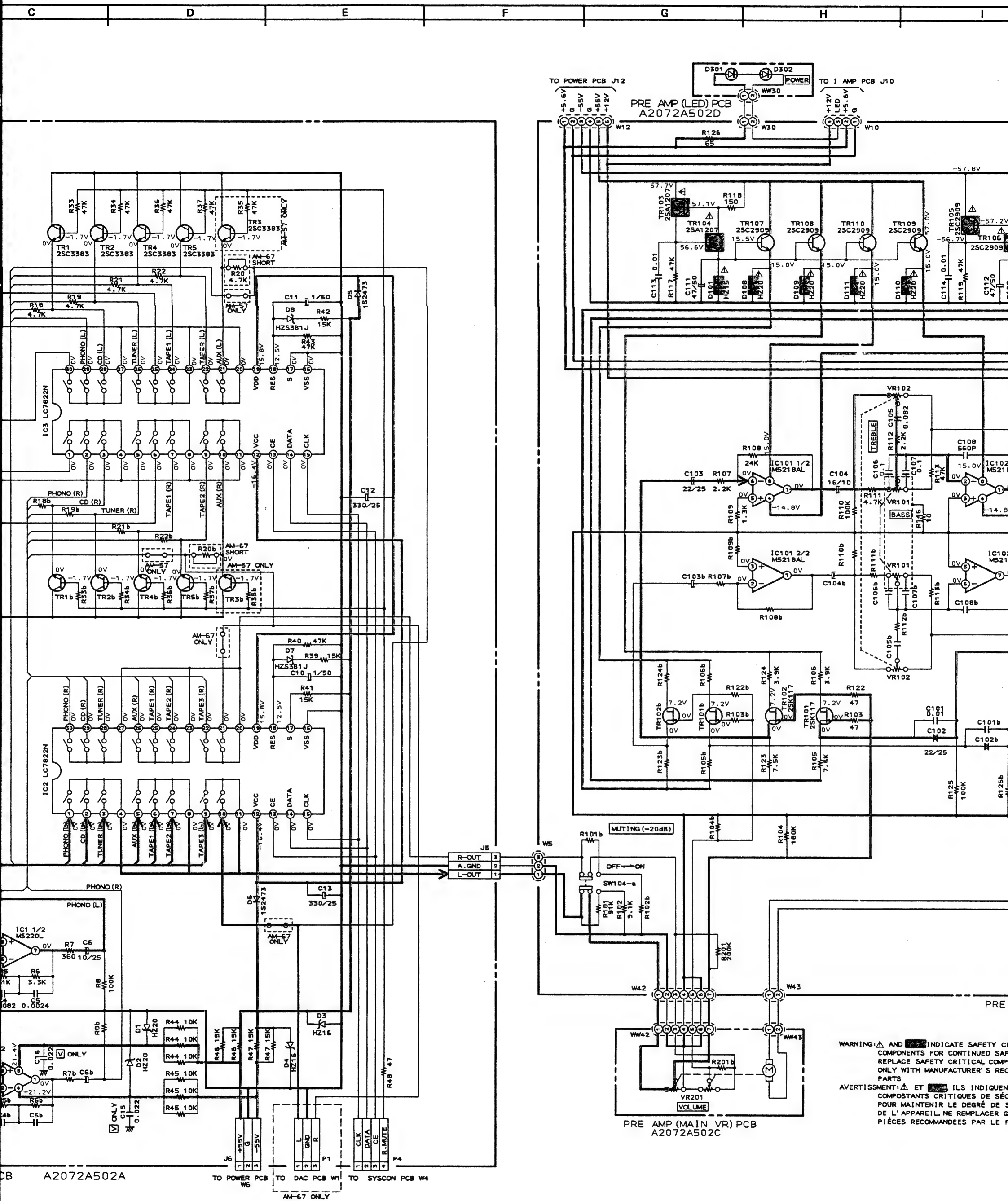




* MARK are
V ONLY





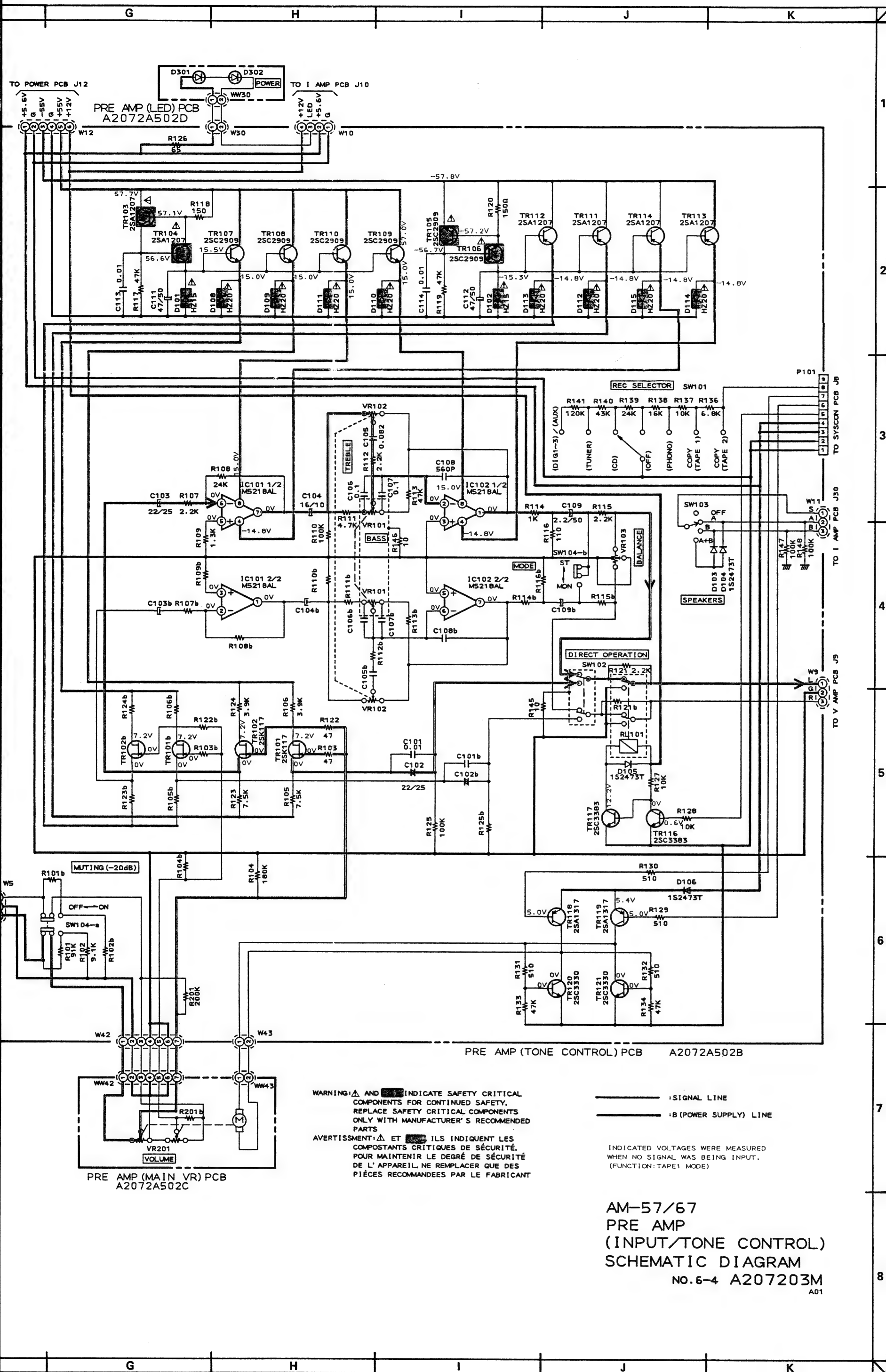
HEADPHONE PCB
A2072A50IG

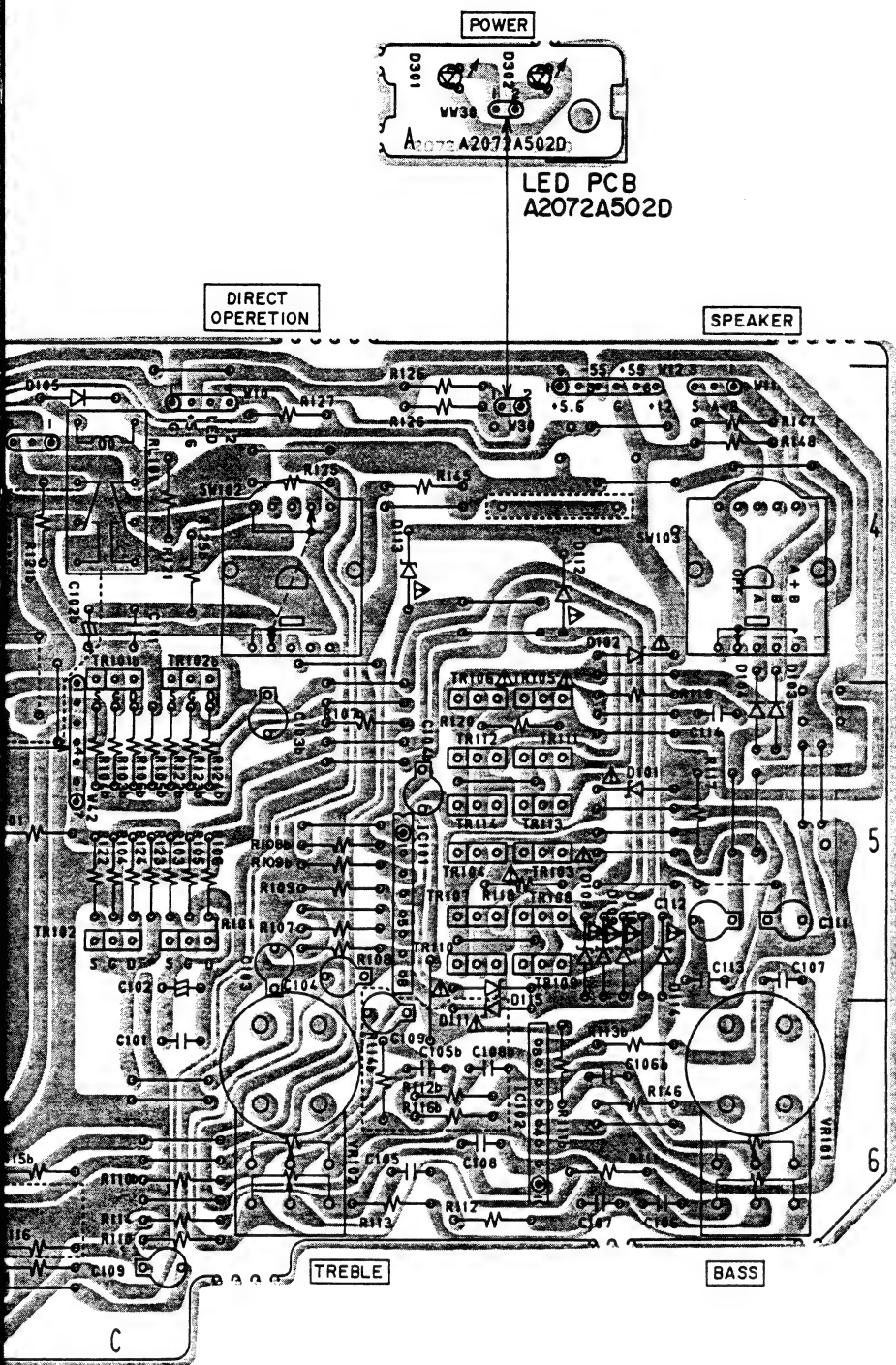




WARNING:  AND  INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFE OPERATION. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

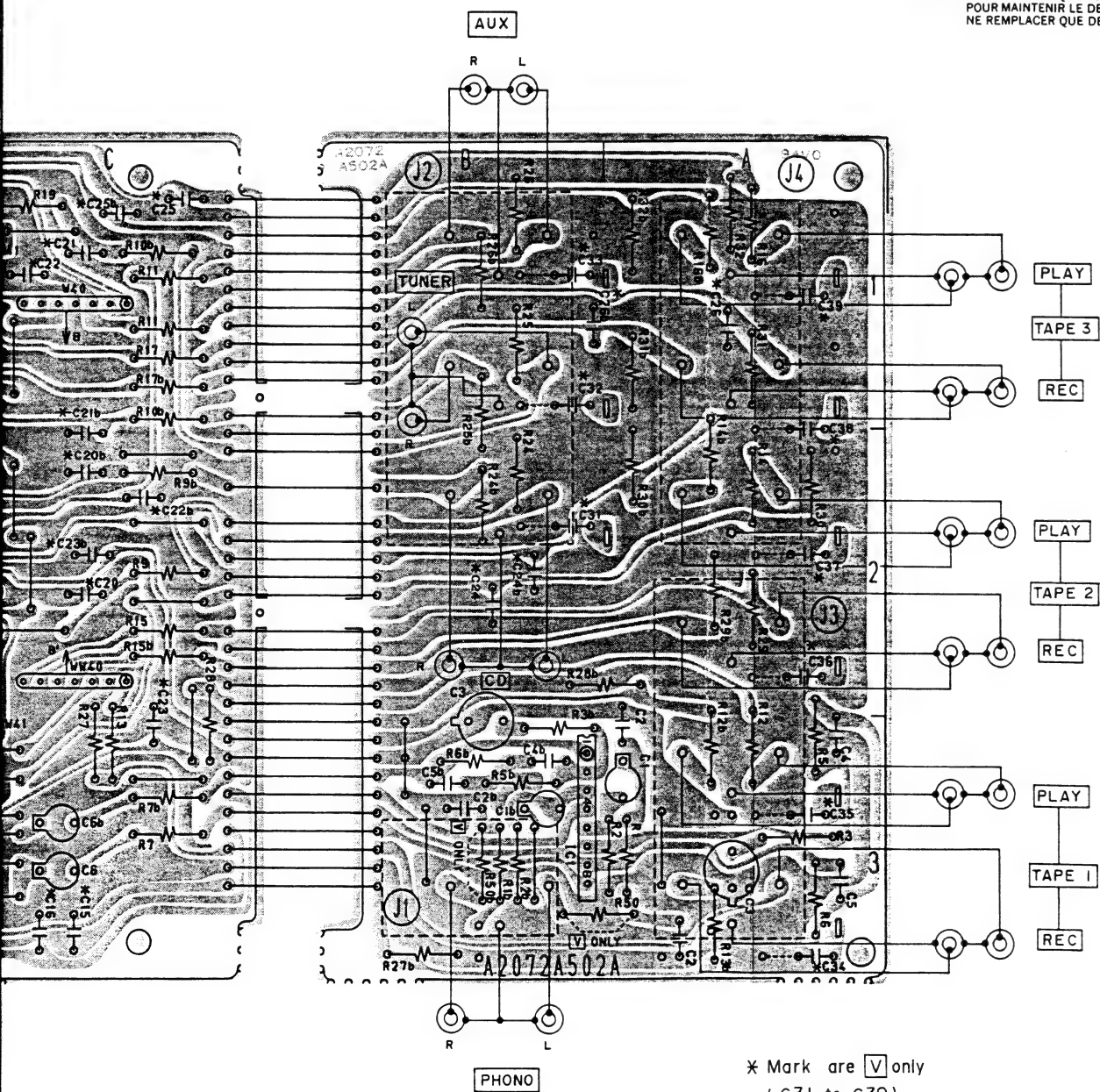
AVERTISSEMENT:  ET  ILS INDIQUENT DES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACEZ QUE LES PIÈCES RECOMMANDÉES PAR LE FABRICATEUR.



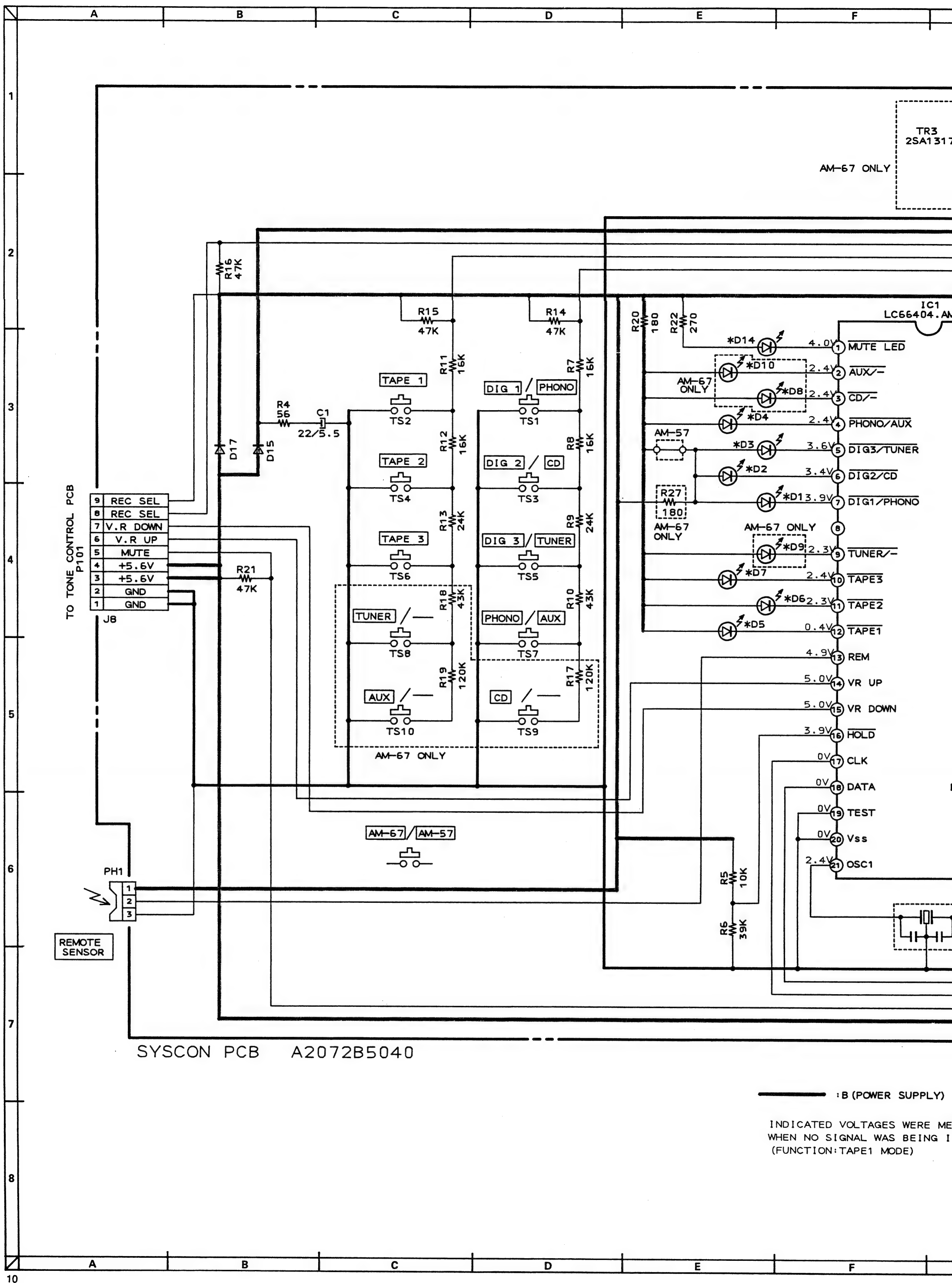


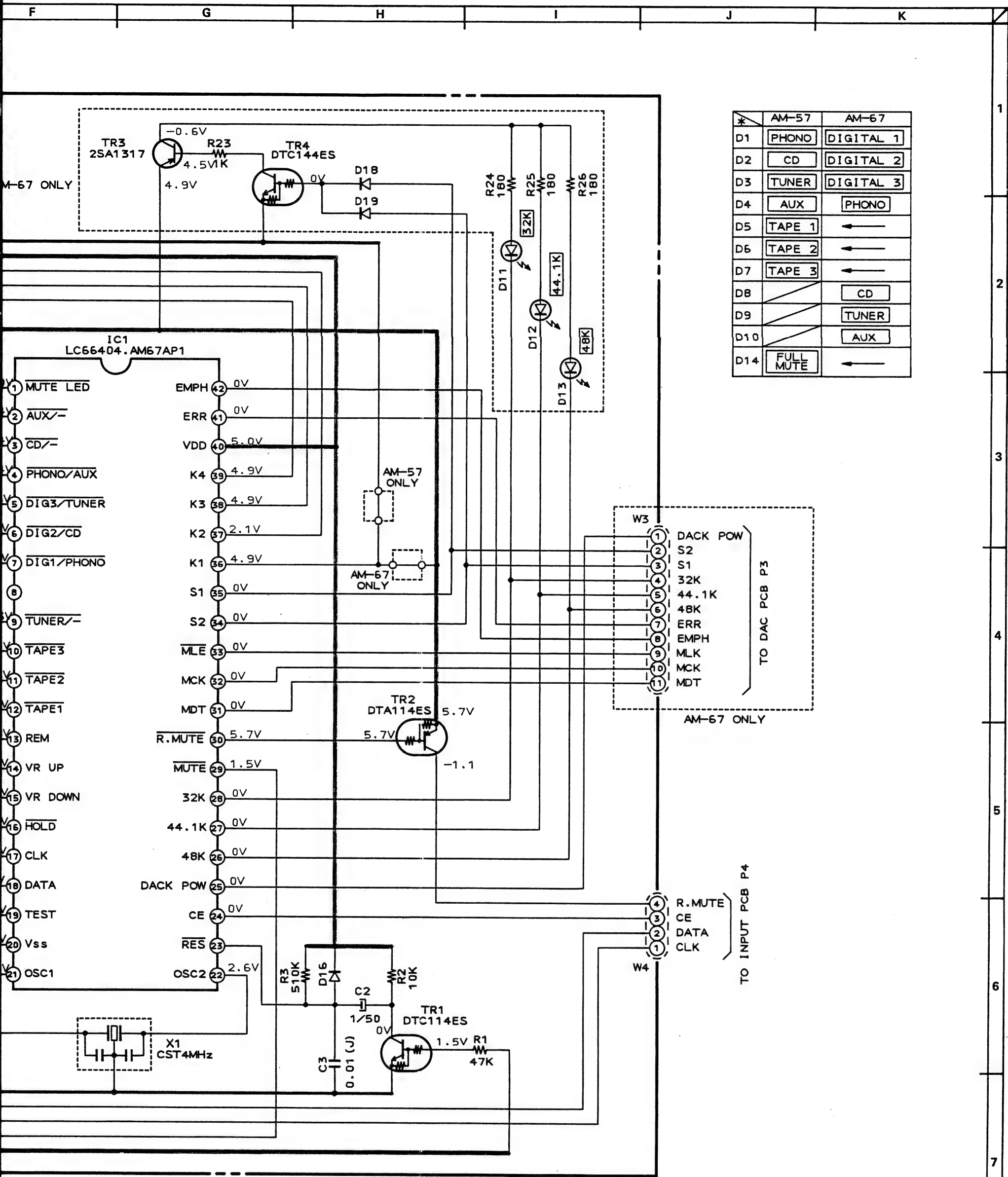
WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.



* Mark are \square only
(C31 to C39)
(C20 to C26)
(C15 , C16)





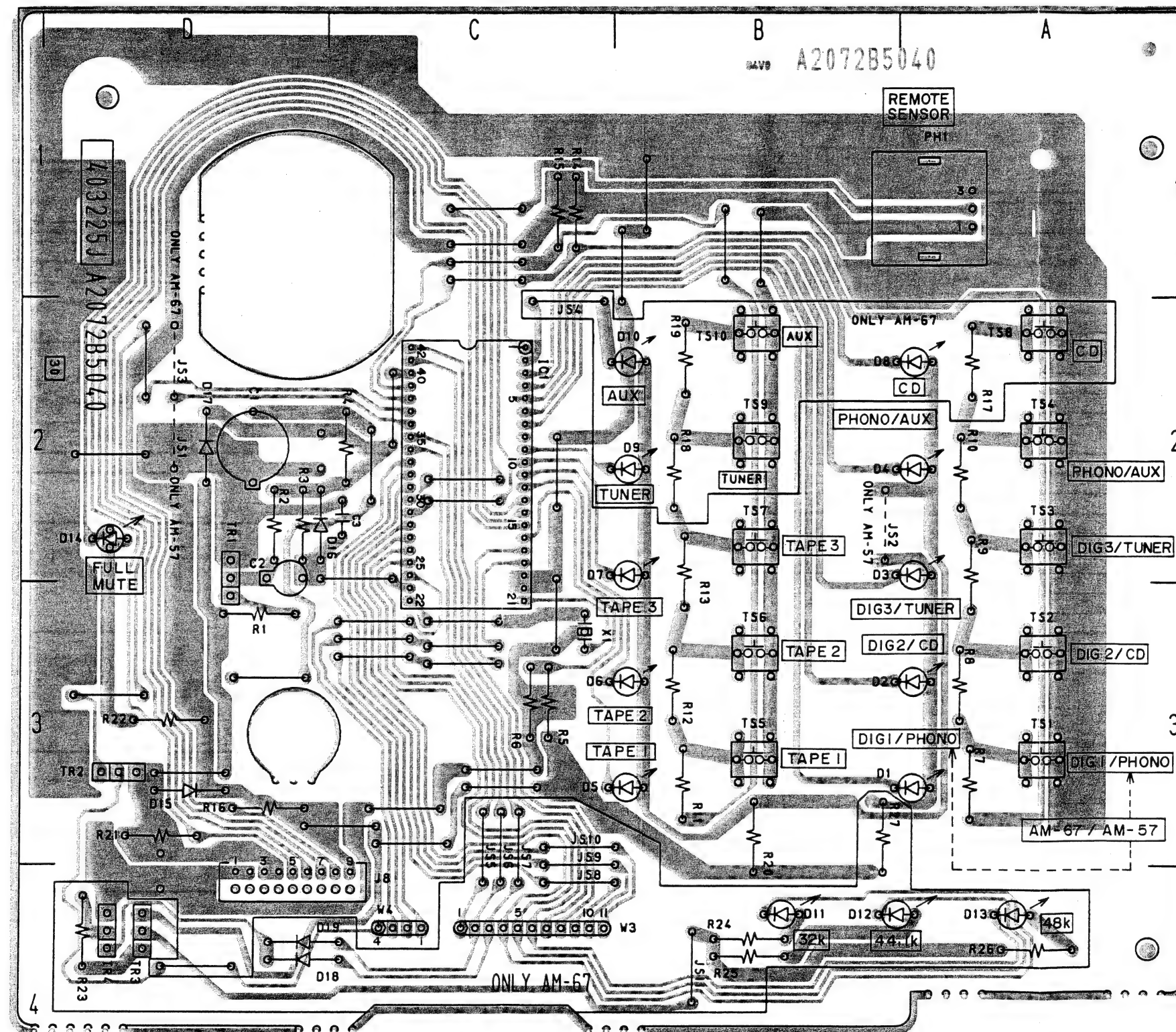
5: B (POWER SUPPLY) LINE

D VOLTAGES WERE MEASURED
SIGNAL WAS BEING INPUT.
N: TAPE1 MODE)

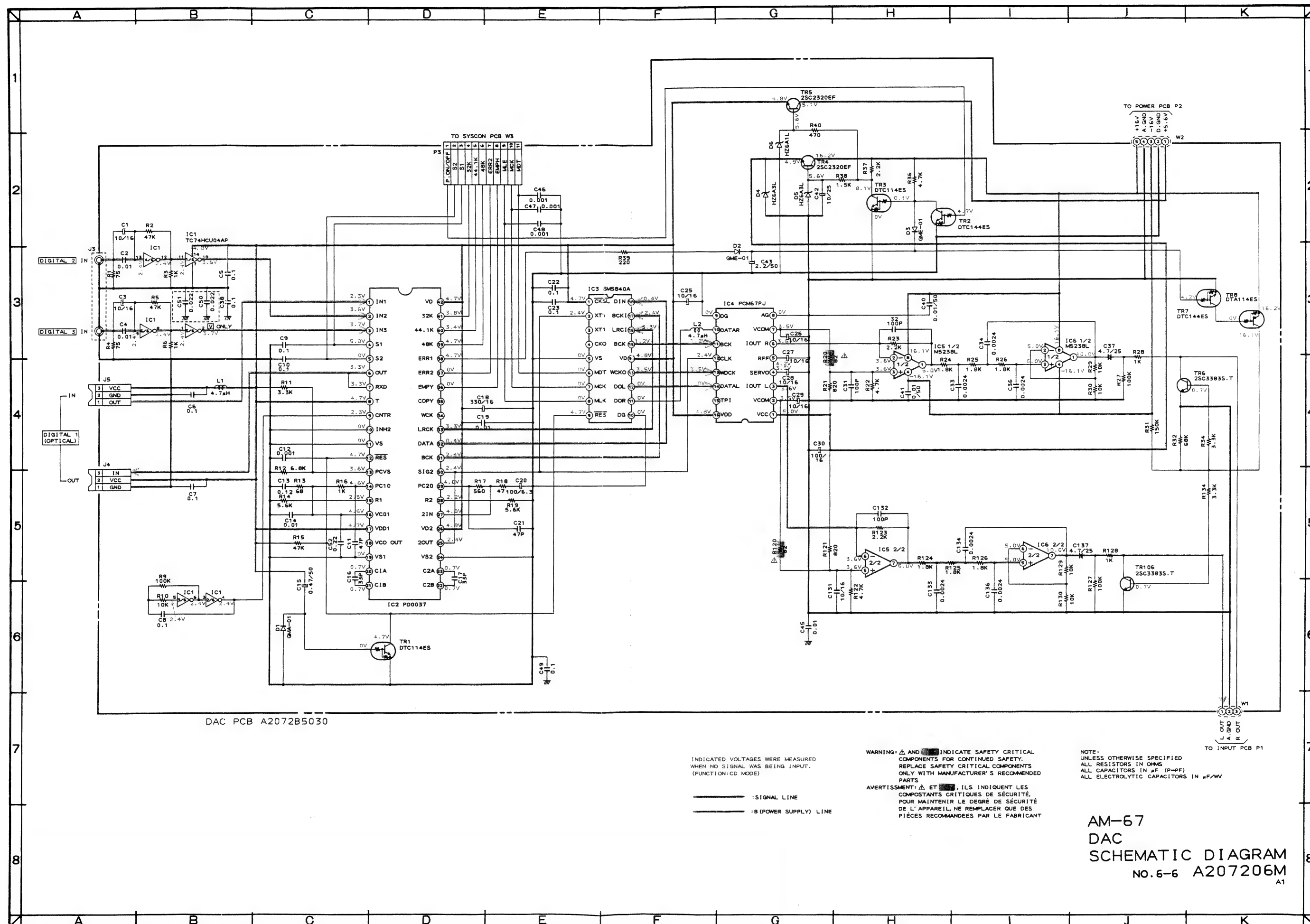
NOTE:
UNLESS OTHERWISE SPECIFIED
ALL RESISTORS IN OHMS
ALL CAPACITORS IN µF (P=PF)
ALL ELECTROLYTIC CAPACITORS IN µF/WV

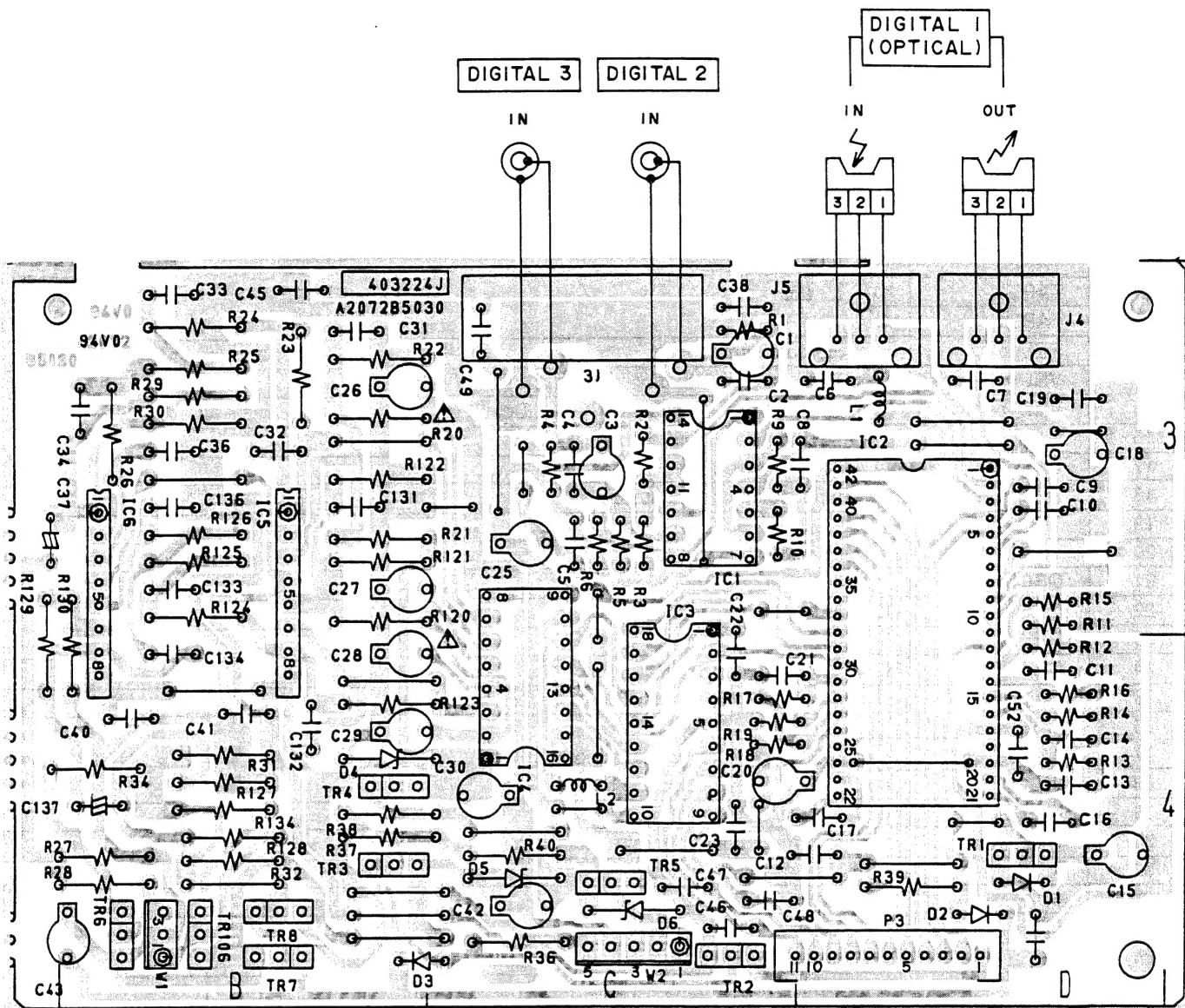
D1 to D13: SLR33MC
D14: SLR33VC
D15 to D19: 1S2473HS

AM-57/67
SYSTEM CONTROL
SCHEMATIC DIAGRAM
NO. 6-5 A207205M
A2



SYSCON PCB A2072B5040





DAC PCB A2072B5030

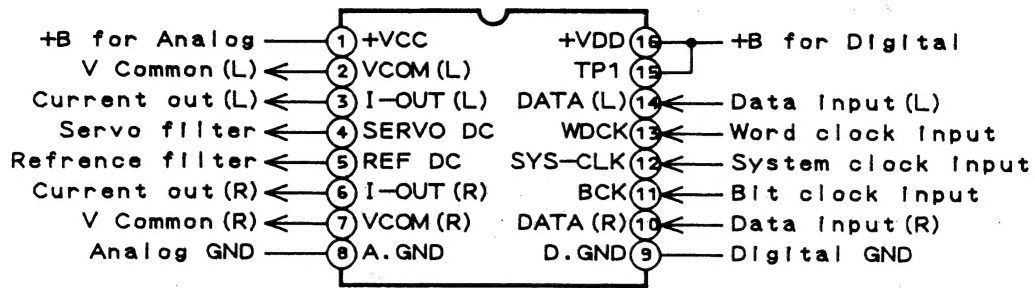
WARNING: ⚠ INDICATES SAFETY CRITICAL COMPONENTS. FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: ⚠ IL INDIQUE LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

LC66404.AM67AP1 (SYSCON-MI-COM)

| Pin No | Symbol | I/O | Description | AM-67 | AM-57 |
|--------|-----------|-----|---|-----------|------------|
| 1 | MUTE LED | O | LED drive output L: activ | FULL MUTE | FULL MUTE |
| 2 | AUX / - | O | | AUX | Not use |
| 3 | CD / - | O | | CD | Not use |
| 4 | PHONO/AUX | O | | PHONO | AUX |
| 5 | DG3/TUNER | O | | DIGITAL3 | TUNER |
| 6 | DG2/CD | O | | DIGITAL2 | CD |
| 7 | DG1/PHONO | O | | DIGITAL1 | PHONO |
| 8 | — | — | Not use | | |
| 9 | TUNER / - | O | LED drive output L : activ | TUNER | Not use |
| 10 | TAPE3 | O | | TAPE3 | TAPE3 |
| 11 | TAPE2 | O | | TAPE2 | TAPE2 |
| 12 | TAPE1 | O | | TAPE1 | TAPE1 |
| 13 | REM | I | Remote control input | | |
| 14 | VRUP | O | VR motor drive to up (L: Up) | | |
| 15 | VRDOWN | O | VR motor drive to down (L: Down) | | |
| 16 | HOLD | I | Back up data input | | |
| 17 | CLK | O | Clock data output | | |
| 18 | DATA | O | Input selector data output | | |
| 19 | TEST | — | (0 V) GND | | |
| 20 | VSS | — | (0 V) GND | | |
| 21 | OSC1 | I | External OSC input | | |
| 22 | OSC2 | O | External OSC output | | |
| 23 | RES | I | System reset input | | |
| 24 | CE | O | Chip enable | | |
| 25 | DACK POW | O | Power ON / OFF data output for CD H: ON | | AM-67 Only |
| 26 | 48 K | I | Sampling frequency data input for CD | | AM-67 Only |
| 27 | 44.1 K | I | | | |
| 28 | 32 K | I | | | |
| 29 | MUTE | O | Mute control outpur L: ON | | |
| 30 | R.MUTE | O | Rec mutè output for tape recording | | |
| 31 | MDT | O | Mode set data output | | AM-67 Only |
| 32 | MCK | O | Mode set clock output | | AM-67 Only |
| 33 | MLF | O | Mode set latch output | | AM-67 Only |
| 34 | S2 | O | Input selector control output for digital | | |
| 35 | S1 | O | Input selector control output for digital | | |
| 36 | K1 | I | Key data input | | |
| 37 | K2 | I | | | |
| 38 | K3 | I | | | |
| 39 | K4 | I | | | |
| 40 | VDD | — | (+B) Power supply | | |
| 41 | ERR | I | Unlock data input H: Unlock | | AM-67 Only |
| 42 | EMPH | I | Emphasis data input H: Emph | | AM-67 Only |

PCM67AP-J (D/A CONVERTOR)



PD0037 (Digital Audio Interface Reciver)

| Pin No. | Symbol | I/O | Description |
|---------|---------|-----|--|
| 1 | IN1 | I | Data input |
| 2 | IN2 | I | Data input |
| 3 | IN3 | I | Data input |
| 4 | S1 | I | Input select |
| 5 | S2 | I | Input select |
| 6 | OUT | O | MPX data output |
| 7 | RXD | I | Data input |
| 8 | TEST | I | Test mode input |
| 9 | CNTR | I | Counter clock input |
| 10 | INH2 | I | VCO 2 ON / OFF control H:OFF |
| 11 | VSS | — | (0 V) GND |
| 12 | RESET | I | Power ON reset input |
| 13 | PSVS | I | VCO 1/2 INPUT |
| 14 | PC1OUT | O | Phase comparator 1 output |
| 15 | R1 | — | External resister connection terminal |
| 16 | VCO1 IN | I | Control voltage input |
| 17 | VDD1 | — | (+B) Power supply |
| 18 | VCO1OUT | O | Not use |
| 19 | VSS1 | — | (0 V) GND |
| 20 | C1A | — | External capaciter connection terminal |
| 21 | C1B | — | External capaciter connection terminal |
| 22 | C2A | — | External capaciter connection terminal |
| 23 | C2B | — | External capaciter connection terminal |
| 24 | VSS2 | — | (0 V) GND |
| 25 | VCO2OUT | O | VCO output (384 fs) |
| 26 | VDD | — | (+ B) Power supply |
| 27 | VCO1IN | I | Control voltage input |
| 28 | R2 | — | External resister connection terminal |
| 29 | PC2OUT | O | Phase comperator 2 output |
| 30 | SIG2 | I | Phase comperator 2 input |
| 31 | BCK | O | Bit clock output |
| 32 | DATA | O | Audio data output |
| 33 | LRCK | O | Data output H: L ch, L: R ch |
| 34 | WCK | O | Word data clock output |
| 35 | COPY | O | Copy data output |
| 36 | EMPH | O | H: Emphasis-ON |
| 37 | ERR2 | O | H: Unlock-ON |
| 38 | ERR1 | O | H: Err |
| 39 | 48K | O | Sampling frequency data output L: activ |
| 40 | 44.1K | O | |
| 41 | 32K | O | |
| 42 | VDD | — | (+ B) Power supply |

SM5840AP (DIGITAL FILTER)

